

Performance Summary

GOVERNANCE AND ECONOMIC PERFORMANCE

Economic Performance

GRI Standard	Performance	Unit	2022	2023	2024	2025
201-1	Direct economic value generated and distributed					
	Direct economic value generated					
	Revenue	Million Baht	2,598.84	4,161.91	3,869.60	4,169.10
	Economic value distributed					
	Operating cost	Million Baht	1,564.01	1,663.88	1,744.64	1,737.81
	Employee wages and benefits		182.27	212.39	226.39	247.86
	Annual dividend payment		841.50	612.00	965.81	965.81
	Payment to the government		50.72	70.74	57.41	91.19
	Social investment		16.28	10.12	9.47	10.80
	Economic value retained	Million Baht	55.94	1,592.78	865.88	1,115.63
205-2	Anti-Corruption					
	Communication and training on anti-corruption policy to governance body members					
	Number of governance body members	%	100	100	100	100
	Total amount of political contributions					
	Total amount of political contributions	Baht	0	0	0	0
	Communication and training on anti-corruption policy to employees					
	Number of employees	%	100	100	100	100
	Communication on anti-corruption policy to business partners					
	Number of business partners	%	100	100	100	100
205-3	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
	Cost of fines related to corruption					
	Cost of fines	Baht	0	0	0	0
	Provisions for fines and settlements specified for ESG issues in audited accounts					
	Provisions for fines	Baht	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
	Confirmed incidents of Discrimination or Harassment					
	Total number of confirmed incidents of Discrimination or Harassment	Case	0	0	0	0
	Confirmed incidents of Conflicts of Interest					

GRI Standard	Performance	Unit	2022	2023	2024	2025
205-3	Total number of confirmed incidents of Conflicts of Interest	Case	0	0	0	0
	Confirmed incidents of Conflicts of Money Laundering or Insider trading					
	Total number of confirmed incidents of Money Laundering or Insider trading	Case	0	0	0	0
	Written/Digital Acknowledgement of codes of conduct (%)					
	Employees	%	100	100	100	100
	Contractors/ Suppliers/ Service Providers		100	100	100	100
	Subsidiaries		100	100	100	100
	Joint Ventures (including stakes above 10%)		100	100	100	100
	Training Provided					
	Employees	%	100	100	100	100
	Contractors/ Suppliers/ Service Providers		100	100	100	100
	Subsidiaries		100	100	100	100
	Joint Ventures (including stakes above 10%)		100	100	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	2022	2023	2024	2025
308-1	Supplier Environment Assessment					
	New suppliers that were screened using environmental criteria					
	New suppliers	Number	4	0	3	1
	New suppliers that were screened using environmental criteria	Number	4	0	3	1
		%	100	0	100	100
308-2	Negative environmental impacts in the supply chain and actions taken					
	Total number of suppliers assessed for environmental impacts	Number	14	12	12	11
	Suppliers identified as having significant actual and potential negative environmental impacts.	Number	0	0	0	0
		Percentage	0	0	0	0
414-1	Supplier Social Assessment					
	New suppliers that were screened using social criteria					
	New suppliers	Number	4	0	3	1
	New suppliers that were screened using social criteria	Number	4	0	3	1
		Percentage	100	N/A	100	100
414-2	Negative social impacts in the supply chain and actions taken					
	Total number of suppliers assessed for social impacts	Number	14	12	12	11
	Suppliers identified as having significant actual and potential negative social impacts.	Number	0	0	0	0
		Percentage	0	0	0	0
S&P CSA	Total tier 1 suppliers					
	Absolute number of suppliers	Number	N/A	292	246	367
	Share of total procurement spent	%	N/A	100	100	100
	Critical tier 1 suppliers					
	Absolute number of suppliers	Number	N/A	12	12	11
	Share of total procurement spent	%	N/A	79.08	80.42	60.72
	Critical non-tier 1 suppliers					
	Absolute number of suppliers	Number	N/A	2	2	0
	Supply chain risk exposure					
	Tier 1 supplier assessed (for sustainability risks) in the last 3 years	Number	N/A	292	246	367
		%	N/A	100	100	100
	Tier 1 suppliers classified as high-risk	Number	N/A	0	0	0
		%	N/A	0	0	0

GRI Standard	Performance	Unit	2022	2023	2024	2025
	Critical non-tier 1 suppliers assessed (for sustainability risks) in the last 3 years	Number	N/A	12	12	11
	Critical non-tier 1 suppliers classified as high-risk	Number	N/A	0	0	0
Supplier Risk Management Measures						
	Critical suppliers assessed annually	%	N/A	100	100	100
Suppliers with high sustainability risk						
	Suppliers with high sustainability risk assessed (ongoing sustainability monitoring) annually	%	N/A	0	0	0
	Percentage of current suppliers with high sustainability risk which have corrective action plans	%	N/A	100	100	100
	Percentage of current high sustainability risk suppliers with corrective action plans that have improved their ESG performance within 12 months of the plan's launch	%	N/A	100	100	100
Supplier Screening						
	Total number of Tier-1 suppliers	Number	N/A	292	246	367
	Total number of significant suppliers in Tier-1		N/A	39	47	26
	% of total spend on significant suppliers in Tier-1	%	N/A	87.11	80.42	71.24
	Total number of significant suppliers in non Tier-1	Number	N/A	2	2	0
	Total number of significant suppliers (Tier-1 and non Tier-1)		N/A	41	49	26
Supplier Assessment						
	Total number of suppliers assessed via desk assessments/on-site assessments	Number	N/A	41	49	26
	% of significant suppliers assessed		N/A	100	100	100
	Target of significant suppliers assessed for FY2025	%	100			
	Number of suppliers assessed with substantial actual/potential negative impacts	Number	0	0	0	0
	% of suppliers with substantial actual/potential negative impacts with agreed corrective action/improvement plan	%	0	0	0	0
	Number of suppliers with substantial actual/potential negative impacts that were terminated	Number	0	0	0	0
Corrective action plan support						
	Total number of suppliers supported in corrective action plan implementation	Number	0	0	0	0
	% of suppliers assessed with substantial actual/potential negative impacts supported in corrective action plan implementation	%	0	0	0	0
	Target of suppliers supported in corrective action plan for FY2025	%	100			
Capacity building programs						
	Total number of suppliers in capacity building programs		0	41	47	26
	% of significant suppliers in capacity building programs	%	0	100	100	100
	Target of suppliers in capacity building programs for FY2025	Number	100			
Supply Chain KPIs						
	KPI 1: % of Acknowledgement of Supplier Code of Conduct	Target: 100% Target Year: 2025				
	% off Acknowledgement of Supplier Code of Conduct	%	N/A	100	100	100
	KPI 2: % of New Supplier Screening using Pre-Questionnaire Form	Target: 100% Target Year: 2025				
	% of New Supplier Screening using Pre-Questionnaire Form	%	N/A	100	100	100
	KPI 3: % of Existing Supplier ESG Performance Evaluation	Target: 100% Target Year: 2025				
	% of Existing Supplier ESG Performance Evaluation	%	N/A	100	100	100

Customer Relationship Management

GRI Standard	Performance	Unit	2022	2023	2024	2025
S&P CSA	Customer Satisfaction Measurement					
	Satisfied Respondents (as % of satisfied respondents out of total number of respondents to survey)	%	97.08	96.61	98.1	97.49
		Target: 60% Target Year: 2025				
	Data coverage (% of customers/consumers surveyed)	%	64.66	56.26	61.29	64.43

Customer Privacy

GRI Standard	Performance	Unit	2022	2023	2024	2025
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	Number	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, or losses of customer data	Incident	0	0	0	0

Information Security/ Cybersecurity

GRI Standard	Performance	Unit	2022	2023	2024	2025
S&P CSA	Information Security/ Cybersecurity breach cases					
	Total number of information security breaches	Incident	0	0	0	0
	Total number of clients, customers and employees affected by the breaches	Incident	0	0	0	0

ENVIRONMENT PERFORMANCE

Energy

GRI Standard	Performance	Unit	2022	2023	2024	2025
302-1	Energy consumption within the organization					
	Energy consumption from non-renewable sources					
	Total non-renewable energy consumption	MWh	29,326.46	32,793.39	37,639.24	34,088.51
	Diesel/ Petrol/ Gasoline	MWh	1,112.76	1,475.94	1,662.63	1,558.46
	Grid electricity consumption ¹⁾	MWh	28,576.60	30,082.60	34,143.61	32,530.05
	Total non-renewable energy consumption intensity ratio	MWh/THB mm	7.58	7.46	9.04	8.21
	Energy consumption from renewable source Scope					
	Total renewable energy consumption	MWh	1,681.69	1,598.26	1,159.72	1,909.81
	Solar power	MWh	1,681.69	1,598.26	1,159.72	1,909.81
	Percentage of electricity from renewable sources (wind, water, solar, biogas) used per total energy consumption	%	5.15	5.40	3.33	5.55
	Total energy consumption					
	Total	MWh	31,008.15	34,391.65	38,798.96	35,998.32
	Data coverage for Energy Consumption					
	Data coverage	% of revenue	100	100	100	100
	Type of energy consumption					
	Electricity	MWh	28,213.70	31,290.41	35,945.12	34,439.86
	Heating		1,112.76	1,475.94	1,662.63	1,558.46
	Cooling		-	-	-	-
	Steam		-	-	-	-
	Energy usage data on properties					
	WHA Utilities and Power	MWh	31,008.15	34,391.65	38,798.96	35,998.32
	Type of energy sold					
	Electricity	MWh	72,135.23	112,921.00	157,354.76	219,683.42
	Heating		-	-	-	-
	Cooling		-	-	-	-
	Steam		-	-	-	-
302-2	Energy consumption outside of the organization					
	Total energy consumption	MWh	1,112.76	1,475.94	1,662.63	1,558.46
302-3	Energy intensity					
	Energy intensity ratio	MWh/THB mm	13.21	7.40	9.31	8.29
	Energy intensity ratio	MWh/ton production	N/A	N/A	N/A	N/A
FTSE RUSSELL	Electricity production by energy type					
	Solar	MWh	72,135.23	112,921.00	157,354.76	219,683.42
	Wind		NA	NA	NA	N/A
	Hydro		52,745.48	50,490.00	54,396.60	53,760.38
	Geothermal		NA	NA	NA	N/A
	Biomass		NA	NA	NA	N/A
	Oil		NA	NA	NA	N/A
	Gas		NA	NA	NA	N/A
	CCGT		1,223,968.64	1,236,226.89	1,235,844.54	1,244,140.53
	Nuclear		NA	NA	NA	N/A
	Coal power plant		1,648,150.00	70,700.00	1,396,252.91	1,753,500.00
	Total Renewable ²⁾		125,684.32	163,811.13	212,309.91	273,443.80
	Total Non-Renewable		3,285,873.02	1,707,440.36	3,028,910.33	2,997,640.53

Remark:

¹⁾2022-2024 Grid electricity consumptions are revised to exclude electricity generated onsite from renewable sources (e.g. solar).

²⁾Total Non-Renewable is calculated based on equity holding.

GHG Emission

GRI Standard	Performance	Unit	2022	2023	2024	2025
305-1	Scope 1 emissions					
	Total scope 1 emissions	ton CO ₂ e	356	415	447	417
	Data coverage	% of Revenue	100	100	100	100
	Scope 1 Biogenic CO2 emissions					
	Total Scope 1 Biogenic CO2 emissions	ton CO ₂ e	26.57	29.56	40	21.56
	Data Coverage	% of Revenue	100	100	100	100
305-2	Scope 2 emissions					
	Market-based	ton CO ₂ e	12,083	12,944	0	0
	Location -based	ton CO ₂ e		15,038	17,068	15,438
	Data coverage	% of Revenue	100	100	100	100
305-3	Scope 3 emissions					
	Scope 3	ton CO ₂ e	2,086,915	2,162,538	2,153,900	N/A
	Data coverage	% of Revenue	100	100	100	100
FTSE RUSSELL	Total Emission					
	Scope 1 + Scope 3	ton CO ₂ e	2,087,271	2,162,953	2,170,084	N/A
	Scope 1 + Scope 2 + Scope 3		2,099,354	2,175,897	2,170,532	N/A
	Scope 3 Category	ton CO ₂ e	2,086,915.00	2,162,538	2,153,899	N/A ²⁾
	Purchased Goods and Services		13,490.11	16,163.30	39,401.87	N/A
	Capital Goods		NA	78,049.64	9,002.26	N/A
	Fuel-and-energy-related activities (not included in Scope 1 or 2)		2,881.30	3,082.27	3,884.79	N/A
	Upstream transportation and distribution		NA	2,310.91	135.68	N/A
	Waste generated in operations		6,249.38	3,404.09	2,520.92	N/A
	Business travel		NA	NA	NA	N/A
	Employee commuting		1,375	390.82	424.26	N/A
	Upstream leased assets		NA	NA	NA	N/A
	Downstream transportation and distribution		NA	NA	NA	N/A
	Processing of sold products		NA	NA	NA	N/A
	Use of sold products		NA	NA	NA	N/A
	End of life treatment of sold products		1,343	11,343.11	667.23	N/A
	Downstream leased assets		NA	NA	NA	N/A
	Franchises		NA	NA	NA	N/A
	Investments		2,047,794	2,047,794	2,097,862	N/A
	Other upstream		NA	NA	NA	N/A
	Other downstream		NA	NA	NA	N/A
	Data coverage	% of Revenue	100	NA	100	N/A
	GHG emissions per megawatt-hr					
	GHG emissions per megawatt-hr	ton CO ₂ e/ MWh	0.64	1.27	0.71	0.07 ¹⁾

GRI Standard	Performance	Unit	2022	2023	2024	2025
305-4	GHG emissions intensity ratio					
	Scope 1	Tons	0.14	0.10	0.12	0.10
	Scope 2	CO ₂ e/THBMM	4.65	3.06	4.09	3.57
305-4	Scope 3	Tons	803.02	519.60	556.62	N/A
	Total Scope 1 + Scope 2 + Scope 3	CO ₂ e/THBMM	807.80	522.81	560.92	N/A ²⁾
305-5	Scope 1 emissions reduction					
	Total scope 1 emissions	ton CO ₂ e	82	(59)	32	(30)
	Scope 2 emissions reduction					
	Total scope 2 emissions	ton CO ₂ e	(1,375)	(861)	3,241	(1,377)

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.

Remark:

¹⁾ This intensity is calculated only Scope 1 and Scope 2 per MWh electricity sold (from solar power business). Scope 3 data is in the period of data collection, expected to disclose in Q3'Y2026.

²⁾ Scope 3 data is in the period of data collection, expected to disclose in Q3'Y2026.

Air Emissions

GRI Standard	Performance	Unit	Standard	2022	2023	2024	2025
305-7	Ambient air quality monitoring by industrial estate operation*						
	ESIE						
	Location 1: Chompon Chao Phraya Temple						
	NOx	ppm	≤ 0.17	0.0139-0.0344	0.0045-0.0050	0.0100-0.0197	0.0071-0.0174
	SOx	mg/m ³	≤ 0.3	0.0021-0.0024	0.005-0.010	0.0026-0.0049	0.0022-0.0029
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.019-0.035	0.018-0.034	0.017-0.042	0.016-0.024
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	-
	Location 2: Klong Gram Temple						
	NOx	ppm	≤ 0.17	0.0143-0.0268	0.0106-0.0138	0.0087-0.0239	0.0122-0.0211
	SOx	mg/m ³	≤ 0.3	0.0018-0.0027	0.003-0.005	0.0108-0.0174	0.0021-0.0031
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.017-0.035	0.020-0.042	0.028-0.055	0.025-0.034
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	-
	Location 3: Ras Asadaram Temple						
	NOx	ppm	≤ 0.17	0.0136-0.0320	0.0021-0.0029	0.0107-0.0205	0.0136-0.0336
	SOx	mg/m ³	≤ 0.3	0.0026-0.0029	0.007-0.029	0.0122-0.0169	0.0093-0.0143
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.037-0.096	0.041-0.081	0.062-0.177	0.027-0.044
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	-
	Location 4: Ban Wang Ta Pin						
	NOx	ppm	≤ 0.17	0.0132-0.0310	0.0051-0.0061	0.0137-0.0189	0.0076-0.0172
	SOx	mg/m ³	≤ 0.3	0.0016-0.0028	0.004-0.008	0.0057-0.0073	0.0026-0.0047
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.018-0.100	0.031-0.099	0.041-0.090	0.053-0.118
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	-
	Location 5: Ban Map Lang School						
	NOx	ppm	≤ 0.17	0.0119-0.0248	0.0023-0.0031	0.0080-0.0162	0.0051-0.0136
	SOx	mg/m ³	≤ 0.3	0.0023-0.0030	0.004-0.012	0.0012-0.0020	0.0016-0.0039
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.018-0.044	0.014-0.041	0.027-0.046	0.016-0.045
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	-
	Location 6: Sri Sattanaram Monk Center						
	NOx	ppm	≤ 0.17	0.0145-0.0312	0.0014-0.0028	0.0086-0.0199	0.0086-0.0141
	SOx	mg/m ³	≤ 0.3	0.0022-0.0030	<0.001-0.008	0.0017-0.0026	0.0063-0.0067
	NOx	Tons	-	N/A	N/A	N/A	N/A

GRI Standard	Performance	Unit	Standard	2022	2023	2024	2025
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.018-0.039	0.014-0.026	0.019-0.039	0.014-0.026
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	-
WHA ESIE 1							
Location 1: Eastern Sugar Company Community School							
	NOx	ppm	≤ 0.17	0.0086-0.0333	0.014-0.060	0.0045-0.0096	0.0009-0.0108
	SOx	mg/m ³	≤ 0.3	0.0019-0.0031	0.0081-0.0176	0.0037-0.0044	0.0113-0.0119
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.033-0.079	0.044-0.224	0.054-0.137	0.019-0.040
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.019-0.079	0.023-0.103	0.023-0.047	0.012-0.029
Location 2: Surasak School							
	NOx	ppm	≤ 0.17	0.0047-0.0171	0.004-0.017	0.0066-0.0091	0.0003-0.0230
	SOx	mg/m ³	≤ 0.3	0.0018-0.0065	0.007-0.028	0.0037-0.0155	0.0152-0.0166
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.027-0.050	0.024-0.150	0.044-0.094	0.017-0.051
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.011-0.035	0.013-0.074	0.010-0.047	0.012-0.028
Location 3: Weather Station							
	NOx	ppm	≤ 0.17	0.0016-0.0230	0.014-0.042	0.0070-0.0220	0.0010-0.0270
	SOx	mg/m ³	≤ 0.3	0.0012-0.0065	0.001-0.009	0.0026-0.0039	0.003-0.004
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.027-0.050	0.035-0.148	0.023-0.065	0.0188-0.0406
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.018-0.070	0.016-0.026	0.011-0.040	0.012-0.065
Location 4: Klong Gram Temple							
	NOx	ppm	≤ 0.17	0.0038-0.0148	0.010-0.032	0.0101-0.0129	0.0016-0.0238
	SOx	mg/m ³	≤ 0.3	0.0016-0.0020	0.015-0.031	0.0068-0.0099	0.0063-0.0069
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.031-0.089	0.029-0.049	0.041-0.129	0.020-0.041
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.019-0.045	0.021-0.03	0.012-0.052	0.014-0.028
Location 5: Ban Tai Sun							
	NOx	ppm	≤ 0.17	0.0082-0.0188	0.021-0.042	0.0061-0.0104	0.0013-0.0206
	SOx	mg/m ³	≤ 0.3	0.0016-0.0024	0.001-0.002	0.0029-0.0046	0.0125-0.0164
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A

GRI Standard	Performance	Unit	Standard	2022	2023	2024	2025
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.034-0.073	0.016-0.023	0.030-0.075	0.017-0.044
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.012-0.037	0.010-0.018	0.019-0.048	0.011-0.028
Location 6: Khao Kan Song Temple							
	NO _x	ppm	≤ 0.17	0.0025-0.0097	0.007-0.055	0.0084-0.0170	0.0006-0.0123
	SO _x	mg/m ³	≤ 0.3	0.0018-0.0027	0.028-0.049	0.0054-0.0128	0.0093-0.0103
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.032-0.088	0.027-0.105	0.033-0.084	0.024-0.041
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.019-0.033	0.019-0.05	0.026-0.055	0.017-0.031
Location 7: Ta Kien Ku Temple							
	NO _x	ppm	≤ 0.17	0.0030-0.0098	0.004-0.012	0.0016-0.0178	0.0020-0.0152
	SO _x	mg/m ³	≤ 0.3	0.0016-0.0027	0.013-0.022	0.0077-0.0084	0.0063-0.0095
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.019-0.068	0.019-0.046	0.035-0.125	0.016-0.031
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.009-0.033	0.011-0.023	0.011-0.045	0.011-0.022
Location 8 : Ban Som							
	NO _x	ppm	≤ 0.17	0.0019-0.0095	0.004-0.007	0.0052-0.0113	0.0002-0.0078
	SO _x	mg/m ³	≤ 0.3	0.0019-0.0026	0.009-0.019	0.0037-0.0042	0.0122-0.0137
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.025-0.051	0.017-0.027	0.0310-0.0690	0.016-0.029
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.012-0.039	0.033-0.085	0.018-0.045	0.010-0.018
WHA ESIE 2							
Location 1: Ban Map Lam Bid School							
	NO _x	ppm	≤ 0.17	0.0063-0.0090	0.008-0.020	0.0017-0.0135	0.0046-0.0229
	SO _x	mg/m ³	≤ 0.30	0.0063-0.0076	0.0055-0.0126	0.0016-0.0050	0.0851-0.0876
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.023-0.048	0.029-0.063	0.016-0.064	0.035-0.074
	Total Suspended Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.012-0.024	0.010-0.035	0.011-0.021	0.020-0.044
Location 2: Industrial estate area							
	NO _x	ppm	≤ 0.17	0.0089-0.0122	0.003-0.008	0.0068-0.0142	0.0117-0.0241
	SO _x	mg/m ³	≤ 0.30	0.0066-0.0079	0.0010-0.0016	0.0032-0.0095	0.0031-0.0047
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A

GRI Standard	Performance	Unit	Standard	2022	2023	2024	2025
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.026-0.050	0.022-0.036	0.024-0.046	0.028-0.040
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.014-0.032	0.008-0.028	0.016-0.031	0.018-0.026
Location 3: Ban Map Lam Bid Moo. 7							
	NO _x	ppm	≤ 0.17	0.0087-0.0108	0.005-0.014	0.0021-0.0192	0.0065-0.0088
	SO _x	mg/m ³	≤ 0.30	0.0068-0.0076	0.0016-0.0050	0.0019-0.0055	0.0010-0.0016
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.018-0.041	0.021-0.080	0.024-0.045	0.027-0.042
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.008-0.024	0.015-0.032	0.012-0.024	0.015-0.032
Location 4: Khao Kan Song Moo. 3							
	NO _x	ppm	≤ 0.17	0.0087-0.0109	0.007-0.013	0.0011-0.0095	0.0077-0.0142
	SO _x	mg/m ³	≤ 0.30	0.0063-0.0081	0.0039-0.0181	0.0035-0.0060	0.0113-0.0221
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.028-0.045	0.023-0.056	0.026-0.050	0.030-0.051
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.009-0.020	0.013-0.032	0.008-0.027	0.019-0.030
Location 5: Chong Lom Temple							
	NO _x	ppm	≤ 0.17	0.0078-0.0108	0.002-0.008	0.0012-0.0094	0.0071-0.0122
	SO _x	mg/m ³	≤ 0.30	0.0090-0.0113	0.0013-0.0026	0.0058-0.0072	0.0084-0.0130
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.021-0.071	0.019-0.081	0.022-0.083	0.026-0.039
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.008-0.027	0.013-0.045	0.012-0.046	0.015-0.020
Location 6: Ban Map Kia Moo. 4							
	NO _x	ppm	≤ 0.17	0.0090-0.0113	0.008-0.024	0.0017-0.0040	0.0037-0.0068
	SO _x	mg/m ³	≤ 0.30	0.0066-0.0076	0.0013-0.0045	0.0016-0.0050	0.0851-0.0876
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.036-0.220	0.057-0.139	0.029-0.073	0.031-0.120
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.012-0.102	0.034-0.102	0.013-0.027	0.018-0.047
WHA ESIE 2.1							
Location 1: Ban Map Lam Bit – Point 1 Moo.7							
	NO _x	ppm	≤ 0.17	-	-	-	-
	SO _x	mg/m ³	≤ 0.30	-	-	-	-
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	-	-	-	0.030-0.054
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	0.020-0.032
Location 2: Ban Map Lam Bit – Point 2 Moo.7							
	NO _x	ppm	≤ 0.17	-	-	-	-
	SO _x	mg/m ³	≤ 0.30	-	-	-	-
	NO _x	Tons	-	N/A	N/A	N/A	N/A

GRI Standard	Performance	Unit	Standard	2022	2023	2024	2025
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	-	-	-	0.030-0.059
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	0.021-0.039
	WHA ESIE 3						
	Location 1: Ban Ta Jam School						
	NOx	ppm	≤ 0.17	0.0074-0.0229	<0.001-0.070	0.0010-0.0260	0.0007-0.0224
	SOx	mg/m ³	≤ 0.30	0.0017-0.0033	0.0254-0.1492	0.0022-0.0035	0.0180-0.0208
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.041-0.092	0.110-0.280	0.024-0.040	0.037-0.053
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.019-0.042	0.035-0.116	0.015-0.027	0.021-0.039
	Location 2: Ta Jam Sub-District Hospital						
	NOx	ppm	≤ 0.17	0.0061-0.0206	<0.001-0.017	0.0015-0.0103	0.0001-0.0176
	SOx	mg/m ³	≤ 0.30	0.0017-0.0032	0.0072-0.0089	0.0067-0.0071	0.0122-0.0137
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.023-0.061	0.046-0.074	0.040-0.085	0.042-0.067
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.013-0.041	0.026-0.051	0.016-0.035	0.025-0.049
	Location 3: Huay Mara Sub-District Hospital						
	NOx	ppm	≤ 0.17	0.0088-0.0184	<0.001-0.008	0.0028-0.0157	0.0005-0.0035
	SOx	mg/m ³	≤ 0.30	0.0017-0.0032	0.0081-0.0098	0.0043-0.0050	0.0139-0.0174
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.032-0.090	0.032-0.073	0.029-0.041	0.086-0.218
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.022-0.080	0.015-0.028	0.017-0.032	0.041-0.065
	Location 4: Ban Meun Jit Sub-District Hospital						
	NOx	ppm	≤ 0.17	0.0083-0.0216	<0.001-0.006	0.0001-0.0041	0.0004-0.0163
	SOx	mg/m ³	≤ 0.30	0.0016-0.0033	0.0079-0.0097	0.0096-0.0101	0.0101-0.0113
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.039-0.071	0.019-0.057	0.028-0.048	0.041-0.058
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.020-0.045	0.013-0.039	0.011-0.024	0.022-0.037
	Location 5: Raweng School						
	NOx	ppm	≤ 0.17	0.0073-0.0221	<0.001-0.008	0.0013-0.0099	0.0001-0.0145
	SOx	mg/m ³	≤ 0.30	0.0018-0.0034	0.0092-0.0121	0.0012-0.0014	0.0166-0.0216
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.026-0.060	0.029-0.047	0.030-0.058	0.052-0.088
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.011-0.028	0.018-0.039	0.013-0.029	0.030-0.042

GRI Standard	Performance	Unit	Standard	2022	2023	2024	2025
	Location 6: Chaloeamraj Temple						
	NOx	ppm	≤ 0.17	0.0065-0.0194	<0.001-0.005	0.0002-0.0157	0.0013-0.0154
	SOx	mg/m ³	≤ 0.30	0.0017-0.0035	0.0087-0.0118	0.0017-0.0023	0.0154-0.0191
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.031-0.059	0.030-0.063	0.022-0.069	0.061-0.113
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.020-0.048	0.021-0.044	0.017-0.035	0.038-0.063
	WHA ESIE 3.1						
	Location 1: Ban Chaloeam Lap – Point 1						
	NOx	ppm	≤ 0.17	-	-	-	-
	SOx	mg/m ³	≤ 0.30	-	-	-	-
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	-	-	-	0.018-0.045
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	0.012-0.027
	Location 2: Ban Chaloeam Lap – Point 2						
	NOx	ppm	≤ 0.17	-	-	-	-
	SOx	mg/m ³	≤ 0.30	-	-	-	-
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	-	-	-	0.061-0.135
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	0.030-0.061
	WHA ESIE 4						
	Location 1: Ban Nikom Sans Ton Eng-main road						
	NOx	ppm	≤ 0.17	0.0012-0.0109	0.002-0.009	0.0066-0.0150	0.0046-0.0105
	SOx	mg/m ³	≤ 0.30	0.0008-0.0052	0.0034-0.0064	0.0070-0.0090	0.0159-0.0181
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.023-0.055	0.031-0.063	0.031-0.047	0.016-0.039
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.010-0.031	0.014-0.035	0.017-0.028	0.010-0.025
	Location 2: Ban Nong Mapring						
	NOx	ppm	≤ 0.17	0.0010-0.0093	0.003-0.026	0.0044-0.0163	0.0067-0.0123
	SOx	mg/m ³	≤ 0.30	0.0015-0.0050	0.0027-0.0037	0.0025-0.0048	0.0075-0.0099
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.025-0.047	0.032-0.074	0.033-0.049	0.025-0.046
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.012-0.032	0.019-0.040	0.016-0.027	0.011-0.032
	Location 3: Mae Nam Ku Temple						
	NOx	ppm	≤ 0.17	0.0030-0.0158	0.002-0.012	0.0041-0.0169	0.0027-0.0162
	SOx	mg/m ³	≤ 0.30	0.0017-0.0062	0.0043-0.0052	0.0086-0.0133	0.0113-0.0203
	NOx	Tons	-	N/A	N/A	N/A	N/A

GRI Standard	Performance	Unit	Standard	2022	2023	2024	2025
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.019-0.038	0.036-0.096	0.029-0.053	0.016-0.040
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.008-0.028	0.018-0.047	0.014-0.033	0.010-0.030
Location 4: Ban Mae Nam Ku							
	NOx	ppm	≤ 0.17	0.0027-0.0125	0.012-0.028	0.0114-0.0177	0.0038-0.0169
	SOx	mg/m ³	≤ 0.30	0.0012-0.0077	0.0048-0.0085	0.0114-0.0152	0.0187-0.0211
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.021-0.033	0.059-0.174	0.039-0.057	0.019-0.044
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.009-0.011	0.028-0.057	0.020-0.035	0.012-0.032
WHA ESIE 5							
Location 1: The residential area located on the western side of the project site							
	NOx	ppm	≤ 0.17	-	-	-	-
	SOx	mg/m ³	≤ 0.30	-	-	-	-
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	-	-	-	0.044-0.075
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	0.022-0.040
Location 2: The residential area located on the northern side of the project site							
	NOx	ppm	≤ 0.17	-	-	-	-
	SOx	mg/m ³	≤ 0.30	-	-	-	-
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	-	-	-	0.040-0.105
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	0.021-0.048
Location 3: The residential area located on the southern side of Project 1							
	NOx	ppm	≤ 0.17	-	-	-	-
	SOx	mg/m ³	≤ 0.30	-	-	-	-
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	-	-	-	0.037-0.053
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	0.025-0.038
Location 4: The residential area located on the southern side of Project 2							
	NOx	ppm	≤ 0.17	-	-	-	-
	SOx	mg/m ³	≤ 0.30	-	-	-	-
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	-	-	-	0.049-0.116
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	0.031-0.049

GRI Standard	Performance	Unit	Standard	2022	2023	2024	2025
	WHA CIE 1						
	Location 1: Resident and commercial area within the industrial estate						
	NOx	ppm	≤ 0.17	0.0045-0.0129	0.010-0.011	0.001-0.021	0.001 - 0.0056
	SOx	mg/m ³	≤ 0.30	0.0019-0.0066	0.0128-0.0130	0.0070-0.0076	0.0075 - 0.0137
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.043-0.064	0.083-0.094	0.069-0.110	0.064 - 0.088
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	-
	Location 2: Bo Win School						
	NOx	ppm	≤ 0.17	0.0015-0.0091	0.005-0.007	<0.001-0.006	0.0006 - 0.0119
	SOx	mg/m ³	≤ 0.30	0.0011-0.0075	0.0104-0.0156	0.0059-0.0069	0.0092 - 0.0108
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.021-0.026	0.071-0.128	0.039-0.057	0.019 - 0.053
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	-
	Location 3: Pan Saded Nok Temple						
	NOx	ppm	≤ 0.17	0.0041-0.0111	0.009-0.013	0.003-0.018	0.0012 - 0.0083
	SOx	mg/m ³	≤ 0.30	0.0010-0.0055	0.0327-0.0369	0.0320-0.0385	0.0070 - 0.0074
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.026-0.032	0.066-0.082	0.039-0.065	0.027 - 0.056
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	-
	WHA CIE 2						
	Location 1: Hoobbon Sub-District Hospital						
	NOx	ppm	≤ 0.17	0.0041-0.0142	0.007-0.009	0.0065-0.0159	0.0114-0.0228
	SOx	mg/m ³	≤ 0.30	0.0008-0.0058	0.0041-0.0056	0.0074-0.0096	0.0105-0.0129
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.038-0.068	0.066-0.084	0.033-0.057	0.037-0.064
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.018-0.041	0.038-0.046	0.016-0.033	0.020-0.028
	Location 2: Khao Hin Lad Temple						
	NOx	ppm	≤ 0.17	0.0026-0.0100	0.004-0.008	0.0126-0.0211	0.0089-0.0185
	SOx	mg/m ³	≤ 0.30	0.0010-0.0076	0.0042-0.0059	0.0074-0.0094	0.0060-0.0098
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.029-0.057	0.036-0.085	0.027-0.043	0.014-0.022
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.016-0.042	0.028-0.039	0.014-0.025	0.021-0.039
	Location 3: Khao Kan Song Moo.3 Community						
	NOx	ppm	≤ 0.17	0.0016-0.0151	0.008-0.011	0.0080-0.0282	0.0045-0.0226
	SOx	mg/m ³	≤ 0.30	0.0010-0.0050	0.0025-0.0031	0.0032-0.0037	0.0038-0.0093
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A

GRI Standard	Performance	Unit	Standard	2022	2023	2024	2025
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.031-0.066	0.048-0.068	0.025-0.050	0.034-0.134
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.015-0.044	0.026-0.033	0.012-0.026	0.023-0.077
Location 4: Siri Anusorn Community							
	NO _x	ppm	≤ 0.17	0.0036-0.0153	0.011-0.015	0.0067-0.0253	0.0086-0.0413
	SO _x	mg/m ³	≤ 0.30	0.0010-0.0093	0.0018-0.0036	0.0047-0.0066	0.0192-0.0376
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.034-0.085	0.064-0.101	0.027-0.131	0.023-0.059
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.019-0.041	0.037-0.046	0.015-0.038	0.020-0.037
WHA EIE							
Location 1: WHA EIE office							
	NO _x	ppm	≤ 0.17	0.0015-0.0087	<0.001-0.042	0.0031-0.0315	0.0040-0.0237
	SO _x	mg/m ³	≤ 0.30	0.0050-0.0060	0.0063-0.0085	0.0039-0.0061	0.0048-0.0163
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.016-0.049	0.093-0.128	0.031-0.102	0.024-0.079
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.035-0.086	0.045-0.081	0.018-0.050	0.014-0.037
Location 2: Nong Fab Temple							
	NO _x	ppm	≤ 0.17	0.0012-0.0088	<0.001-0.006	0.0045-0.0331	0.0194-0.0258
	SO _x	mg/m ³	≤ 0.30	0.0042-0.0052	0.0059-0.0091	0.0047-0.0052	0.0107-0.0270
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.030-0.045	0.106-0.138	0.025-0.085	0.016-0.057
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.052-0.081	0.065-0.092	0.012-0.035	0.011-0.035
Location 3: Map Chalud Temple							
	NO _x	ppm	≤ 0.17	0.0018-0.0117	<0.001-0.015	0.0026-0.0181	0.033-0.0202
	SO _x	mg/m ³	≤ 0.30	0.0047-0.0052	0.0060-0.0062	0.0049-0.0057	0.0026-0.0046
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.014-0.028	0.094-0.146	0.032-0.096	0.020-0.060
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.057-0.090	0.044-0.067	0.021-0.059	0.013-0.037
WHA RIL							
Location 1: WHA RIL office							
	NO _x	ppm	≤ 0.17	0.0060-0.0173	0.002-0.019	0.0021-0.0091	<0.0001-0.0022
	SO _x	mg/m ³	≤ 0.30	0.0009-0.0032	0.002-0.021	0.0032-0.0039	0.0019-0.0078
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.024-0.052	0.030-0.066	0.039-0.054	0.017-0.032
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.040-0.078	0.010-0.030	0.021-0.032	0.013-0.027
Location 2: Ban Sam Yak Community							

GRI Standard	Performance	Unit	Standard	2022	2023	2024	2025
	NOx	ppm	≤ 0.17	0.0009-0.0032	0.004-0.011	0.0004-0.0097	0.0005-0.0149
	SOx	mg/m ³	≤ 0.30	0.0011-0.0034	0.004-0.011	0.0026-0.0047	0.0009-0.0068
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.028-0.071	0.025-0.057	0.030-0.041	0.033-0.072
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.034-0.061	0.014-0.035	0.023-0.033	0.021-0.042
Location 3: Nong La Lok Community							
	NOx	ppm	≤ 0.17	0.0024-0.0153	0.001-0.029	0.0006-0.0128	0.0006-0.0202
	SOx	mg/m ³	≤ 0.30	0.0011-0.0031	0.004-0.010	0.0073-0.0087	<0.0001-0.0027
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.018-0.052	0.040-0.089	0.027-0.040	0.020-0.031
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.028-0.071	0.020-0.034	0.020-0.032	0.012-0.018
Location 4: Ban Klong Nam Yen Community							
	NOx	ppm	≤ 0.17	0.0061-0.0145	0.001-0.009	0.0020-0.0070	0.0012-0.0204
	SOx	mg/m ³	≤ 0.30	0.0009-0.0032	0.003-0.014	0.0026-0.0046	0.0010-0.0037
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.022-0.047	0.032-0.056	0.033-0.052	0.020-0.035
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.033-0.066	0.014-0.035	0.020-0.027	0.013-0.021
WHA SIL							
Location 1: WHA SIL office							
	NOx	ppm	≤ 0.17	0.0075-0.0132	0.003-0.040	0.0024-0.0624	0.0107-0.0315
	SOx	mg/m ³	≤ 0.30	0.0016-0.0045	<0.001-0.008	0.0010-0.0012	0.0003-0.0041
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.030-0.147	0.083-0.111	0.052-0.099	0.048-0.096
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.019-0.054	0.040-0.063	0.030-0.061	0.026-0.048
Location 2: Nong Pla Mo School							
	NOx	ppm	≤ 0.17	0.0031-0.0056	0.002-0.029	0.0016-0.0200	0.0040-0.0257
	SOx	mg/m ³	≤ 0.30	0.0016-0.0035	<0.001-0.003	0.0008-0.0010	0.0008-0.0092
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.030-0.051	0.101-0.167	0.045-0.119*	0.057-0.123
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.014-0.035	0.049-0.082	0.025-0.070*	0.032-0.084
Location 3: Bua Loi Klang School							
	NOx	ppm	≤ 0.17	0.0038-0.0070	<0.001-0.032	0.0012-0.0134	0.0010-0.0279
	SOx	mg/m ³	≤ 0.30	0.0016-0.0034	<0.001-0.002	0.0002-0.0011	0.0002-0.0055
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A

GRI Standard	Performance	Unit	Standard	2022	2023	2024	2025
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.031-0.055	0.052-0.096	0.046-0.079	0.036-0.059
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.019-0.029	0.024-0.053	0.026-0.045	0.020-0.033
	Location 4: Ban Mai Tung Din Khor School						
	NO _x	ppm	≤ 0.17	0.0050-0.0104	0.002-0.029	0.0028-0.0288	0.0015-0.0372
	SO _x	mg/m ³	≤ 0.30	0.0016-0.0038	0.001-0.009	0.0005-0.0006	0.0007-0.0027
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.030-0.068	0.067-0.101	0.053-0.102	0.052-0.073
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	0.016-0.031	0.031-0.056	0.019-0.062	0.030-0.046
	WHA R36						
	Location 1: Charoen Si Rat Temple						
	NO _x	ppm	≤ 0.17	N/A	N/A	0.0034-0.0078	0.0056-0.0214
	SO _x	mg/m ³	≤ 0.3	N/A	N/A	0.0045-0.0064	0.0061-0.0088
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	N/A	N/A	0.051-0.244	0.082-0.112
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	N/A	N/A	0.016-0.068	0.033-0.044
	Location 2: Nong Wa Temple						
	NO _x	ppm	≤ 0.17	N/A	N/A	0.004-0.0141	0.011-0.023
	SO _x	mg/m ³	≤ 0.3	N/A	N/A	0.0039-0.0073	0.007-0.008
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	N/A	N/A	0.017-0.039	0.052-0.072
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	N/A	N/A	0.003-0.011	0.032-0.038
	Location 3: Prasittharam Temple						
	NO _x	ppm	≤ 0.17	N/A	N/A	0.006-0.0137	0.0095-0.0263
	SO _x	mg/m ³	≤ 0.3	N/A	N/A	0.0092-0.0114	0.0083-0.0131
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	N/A	N/A	0.028-0.115	0.075-0.109
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	N/A	N/A	0.011-0.046	0.030-0.045
	Location 4: Nong Rakam Temple						
	NO _x	ppm	≤ 0.17	N/A	N/A	0.0036-0.0126	0.0081-0.0168
	SO _x	mg/m ³	≤ 0.3	N/A	N/A	0.004-0.0047	0.0046-0.0096
	NO _x	Tons	-	N/A	N/A	N/A	N/A
	SO _x	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	N/A	N/A	0.063-0.139	0.057-0.099
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	N/A	N/A	0.019-0.062	0.026-0.050
	WHA IER						
	Location 1: Hin Khong Temple						
	NO _x	ppm	≤ 0.17	N/A	N/A	-	0.0009-0.0184
	SO _x	mg/m ³	≤ 0.3	N/A	N/A	-	0.0010-0.0020

GRI Standard	Performance	Unit	Standard	2022	2023	2024	2025
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	N/A	N/A	0.034-0.065	0.053-0.105
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	N/A	N/A	0.019-0.031	0.028-0.040
	Location 2: Moo.11 Ban Sam Noen station 1						
	NOx	ppm	≤ 0.17	N/A	N/A	-	-
	SOx	mg/m ³	≤ 0.3	N/A	N/A	-	-
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	N/A	N/A	0.023-0.034	0.021-0.046
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	N/A	N/A	0.012-0.021	0.015-0.038
	Location 3: Moo.11 Ban Sam Noen station 2						
	NOx	ppm	≤ 0.17	N/A	N/A	-	0.0010-0.0199
	SOx	mg/m ³	≤ 0.3	N/A	N/A	-	0.0024-0.0045
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	N/A	N/A	0.043-0.084	0.052-0.083
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	N/A	N/A	0.019-0.036	0.019-0.042
	Location 4: Ban Khot Klang						
	NOx	ppm	≤ 0.17	N/A	N/A	-	0.0028-0.0201
	SOx	mg/m ³	≤ 0.3	N/A	N/A	-	<0.0001-0.0009
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	N/A	N/A	0.025-0.063	0.044-0.147
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	N/A	N/A	0.011-0.047	0.021-0.056
	Location 5: Wat Pipphali Wana ram						
	NOx	ppm	≤ 0.17	N/A	N/A	-	0.0022-0.0179
	SOx	mg/m ³	≤ 0.3	N/A	N/A	-	0.0021-0.0027
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	N/A	N/A	0.034-0.065	0.031-0.049
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	N/A	N/A	0.019-0.031	0.013-0.036

Biodiversity

GRI Standard	Performance	Unit	2022	2023	2024	2025
304-1	Number of industrial estates located near protected areas	Operation	2	2	2	2
	Number of industrial estates located near high biodiversity value area		2	2	2	2
	Number of industrial estates that conducts biodiversity value assessment		4	4	4	4
	Number of industrial estates required biodiversity management plan		4	4	4	4
	Number of industrial estates implemented biodiversity management plan		4	4	4	4
S&P CSA	Biodiversity Exposure & Assessment					
	Total number of sites and the total area used for operational activities	Number	11	11	11	16
		Area (Hectares)	7,200	7,200	7,200	8,528
	Total number of sites and total area for operational activities that have conducted biodiversity impact assessments in the past 5 years	Number	11	11	11	16
		Area (Hectares)	7,200	7,200	7,200	8,528
	Total number of sites and total area of sites assessed in past 5 years are in close proximity to critical biodiversity	Number	2	2	2	2
		Area (Hectares)	667	667	667	1,141
	Total number of sites, in close proximity to critical biodiversity, that have biodiversity management plan	Number	2	2	2	2
		Area (Hectares)	667	667	667	1,141

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

Raw Material

GRI Standard	Performance	Unit	2022	2023	2024	2025
FTSE RUSSELL	Raw material used					
	Total Raw Material	Tons	82,033.25	90,265.50	94,810.73	92,453.29
	- Non-renewable materials used by freshwater withdrawal		74,775.54	82,804.05	86,961.42	81,029.02
	- Renewable materials used by wastewater		7,131.78	7,240.24	7,656.87	11,424.27

Waste

GRI Standard	Performance	Unit	2022	2023	2024	2025
306-3	Waste by composition					
	Total Waste Generated	Tons	7,250.32	7,703.31	5,305.07	5,739.99
	Hazardous waste		8.13	6.61	2.79	12.03
	Non-hazardous waste		7,242.19	7,696.70	5,302.28	5,727.96
	Data coverage	% of Revenue	100	100	100	100
306-4	Hazardous waste diverted from disposal by recovery option					
	Total	Tons	0	0	0.90	7.21
	Preparation for reuse		0	0	0.90	0.73
	- Onsite		0	0	0	0
	- Offsite		0	0	0.90	0.73
	Recycling		0	0	0	6.48
	- Onsite		0	0	0	0
	- Offsite		0	0	0	6.48
	Other recovery operations		0	0	0	0
	- Onsite		0	0	0	0
	- Offsite		0	0	0	0
	-Storage		0	0	0	0
	Data coverage	% of Revenue	100	100	100	100
	Non-hazardous waste diverted from disposal by recovery option					
	Total	Tons	3,957.87	6,631.99	4,645.32	5,643.90
	Preparation for reuse		0	0	0	5.92
	- Onsite		0	0	0	0
	- Offsite		0	0	0	5.92
	Recycling		3,957.87	6,631.99	4,645.32	5,637.98
	- Onsite		0	0	0	0
	- Offsite		3,957.87	6,631.99	4,645.32	5,637.98
	Other recovery operations		0	0	0	0
	- Onsite		0	0	0	0
	- Offsite		0	0	0	0
	-Storage		1,865.37	1,063.00	480.00	11.26
	Data coverage	% of Revenue	100	100	100	100
S&P CSA	Total waste recycled / reused	Tons	3,957.87	6,631.99	4,646.22	5,651.11
306-5	Hazardous waste directed to disposal operations					
	Total	Tons	0.79	4.36	0.73	1.74
	Landfilling		0	0	0	0
	- Onsite		0	0	0	0
	- Offsite		0	0	0	0
	Incineration (with energy recovery)		0.79	4.36	0.73	1.74
	- Onsite		0	0	0	0
	- Offsite		0.79	4.36	0.73	1.74
	Incineration (without energy recovery)		0	0	0	0
	- Onsite		0	0	0	0
	- Offsite		0	0	0	0
	Other disposal operations		0	0	0	0
	- Onsite		0	0	0	0
	- Offsite		0	0	0	0
	-Storage		7.34	2.25	1.16	3.08

GRI Standard	Performance	Unit	2022	2023	2024	2025
	Data coverage	% of Revenue	100	100	100	100
	Non-hazardous waste directed to disposal operations					
	Total	Tons	1,418.95	1.71	176.96	72.80
	Landfilling		1,418.95	1.71	0	0
	- Onsite		0	0	0	0
	- Offsite		1,418.95	1.71	0	0
	Incineration (with energy recovery)		0	0	176.96	72.80
	- Onsite		0	0	0	0
	- Offsite		0	0	176.96	72.80
	Incineration (without energy recovery)		0	0	0	0
	- Onsite		0	0	0	0
	- Offsite		0	0	0	0
	Other disposal operations		0	0	0	0
	- Onsite		0	0	0	0
	- Offsite		0	0	0	0
	*Storage		0	0	0	0
	Data coverage	% of Revenue	100	100	100	100

Remark: *Storage refers to waste generated during the reporting period that remained in temporary onsite storage as of the reporting date and had not yet been transferred for recovery or disposal. Such waste will be managed by licensed waste management contractors in accordance with applicable legal requirements.

Water and Effluents

GRI Standard	Performance	Unit	2022	2023	2024	2025
303-3	Water withdrawal by source					
	Total water withdrawal from all areas		96,785.22	104,245.97	111,406.39	102,863.73
	Total surface water/ Total harvested rainwater		9,696.35	8,589.54	8,932.00	11,388.21
	- Freshwater ($\leq 1,000$ mg/L Total Dissolved Solids)		9,696.35	8,589.54	8,932.00	11,388.21
	- Other water ($> 1,000$ mg/L Total Dissolved Solids)		0	0	0	0
	Total groundwater		0	0	0	0.707
	- Freshwater ($\leq 1,000$ mg/L Total Dissolved Solids)		0	0	0	0.707
	- Other water ($> 1,000$ mg/L Total Dissolved Solids)		0	0	0	0
	Total seawater		0	0	0	0
	- Freshwater ($\leq 1,000$ mg/L Total Dissolved Solids)		0	0	0	0
	- Other water ($> 1,000$ mg/L Total Dissolved Solids)		0	0	0	0
	Total third-party water		87,088.87	95,656.43	102,474.39	91,474.81
	- Freshwater ($\leq 1,000$ mg/L Total Dissolved Solids) (surface water, harvest rainwater)		65,079.19	74,214.51	78,029.42	69,640.10
	- Other water ($> 1,000$ mg/L Total Dissolved Solids) [External Wastewater]		22,009.68	21,441.92	24,444.97	21,834.71

GRI Standard	Performance	Unit	2022	2023	2024	2025
	Used quarry water collected in the quarry		NA	NA	NA	NA
	Total water withdrawal from areas with water stress	MI	96,785.22	104,245.97	111,406.39	102,863.73
	Total surface water/Total harvested rainwater		9,696.35	8,589.54	8,932.00	11,388.21
	- Freshwater (≤ 1,000 mg/L Total Dissolved Solids)		9,696.35	8,589.54	8,932.00	11,388.21
	- Other water (> 1,000 mg/L Total Dissolved Solids)		0	0	0	0
	Total third-party water		87,088.87	95,656.43	102,474.39	91,474.81
	- Freshwater (≤ 1,000 mg/L Total Dissolved Solids) (surface water/harvested rainwater)		65,079.19	74,214.51	78,029.42	69,640.10
	- Other water (> 1,000 mg/L Total Dissolved Solids), (External Wastewater)		22,009.68	21,441.92	24,444.97	21,834.71
	Total third-party withdrawal by withdrawal source					
	- Surface water/Harvested rainwater	MI	87,088.87	95,656.43	102,474.39	91,474.81
	- Groundwater		0	0	0	0
	- Seawater		0	0	0	0
	Percentage of water withdrawal from area with water stress	%	100	100	100	100
	Data coverage	% of Revenue	100	100	100	100
303-4	Water discharge by destination					
	Total water discharge to all areas	MI	91,718.22	94,132.61	104,590.03	101,876.73
	- Surface water		12,087.68	11,637.57	19,342.38	21,860.32
	- Seawater		4,899.70	4,466.17	4,783.24	5,964.53
	- Water products sale (Raw Water Sales, Industrial Water Sales)		74,730.84	78,028.87	80,464.40	74,051.44
	- Subsurface / well		NA	NA	NA	NA
	Third-party (Off-site water treatment)		NA	NA	NA	NA
	Water discharge by category (all areas)					
	Freshwater (≤ 1,000 mg/L Total Dissolved Solids)	MI	86,818.52	89,666.44	99,806.78	95,911.76
	Other water (≤ 1,000 mg/L Total Dissolved Solids)		4,899.70	4,466.17	4,783.24	5,964.53
	Total water discharge to areas with water stress	MI	91,718.22	94,132.61	104,590.03	101,876.73
	- Surface water		12,087.68	11,637.57	19,342.98	21,860.32
	- Seawater		4,899.70	4,466.17	4,783.24	5,964.53
	- Water products sale (Raw Water Sales, Industrial Water Sales)		74,730.84	78,028.87	80,464.40	74,051.44
	Percentage of water discharge from area with water stress	%	100	100	100	100
	Data coverage	% of Revenue	100	100	100	100

GRI Standard	Performance	Unit	2022	2023	2024	2025
	Water discharge by category (areas with water stress)					
	Freshwater (≤ 1,000 mg/L Total Dissolved Solids)	MI	86,818.52	89,666.44	99,807.38	95,911.76
	Other water (≤ 1,000 mg/L Total Dissolved Solids)		2,460.56	1,962.10	2,377.28	5,964.53
303-5	Water Consumption					
	Total water consumption from all areas	MI	5,067.00	10,113.36	6,816.36	987.44
	Total water consumption from areas with water stress		5,067.00	10,113.36	6,816.36	987.44
	Change in water storage if water storage has been identified as having a significant water-related impact.		Not Analyzed	No Analyzed	No Analyzed	No Analyzed
	Data coverage	% of Revenue	100	100	100	100
-	Water Recycling					
	Water Reclamation Production ¹⁾	MI	6,924.06	7,029.36	7,433.86	11,091.53
	General purposes e.g. landscaping etc.	MI	260.11	452.71	525.64	464.85
FTSE RUSSELL	Water supply data by the Water Utility					
	Water supply data by the Water Utility	MI	82,977.93	86,709.70	88,677.64	83,965.10
	Raw Water		25,665.48	31,884.02	32,002.30	29,246.01
	Premium Clarified Water		5,263.26	5,794.20	5,353.36	7,447.36
	Industrial Water		49,065.35	46,144.85	48,462.03	44,705.43
	Demineralized Water		2,983.84	2,886.63	2,859.95	2,566.30
	Data coverage	% of Revenue	100	100	100	100
	Power generation water withdrawal / consumption intensity ²⁾					
	Water withdrawal intensity per unit of electricity generated	m³/MWh	N/A	N/A	N/A	N/A
	Water consumption intensity per unit of electricity generated	m³/MWh	N/A	N/A	N/A	N/A
S&P CSA	Fresh Water Consumption					
	Total water withdrawal (excluding saltwater)	Million Cubic Meters	74.78	82.80	86.96	81.03
	Total water discharge (exclude salt water)		74.73	78.10	80.50	74.05
	Total net fresh water consumption ³⁾		0.04	4.70	6.46	6.98
	Data coverage	% of Revenue	100	100	100	100
	Target 2025 Total fresh water consumption	Million Cubic Meters	9			

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

¹⁾ This data is included Asia Industrial Estate (based on 60% equity holding in JV), performance of reclamation are revised for 2023-2025.

²⁾ The Company's operations primarily consist of utilities services for industrial estates and solar power generation (power business itself). Solar photovoltaic (PV) systems do not require water for electricity generation, with only minimal water use for panel cleaning. In addition, the Company's utilities production relies mainly on electricity sourced from the grid, supplemented by onsite solar generation, rather than water-intensive thermal power generation. WHAUP conducts other power businesses by holding equity in other power generation and distribution companies, both domestically and abroad.

³⁾ This data represents only fresh water withdrawal to produce water products (Raw water and Clarified water) from Utilities business, excluded external wastewater received from tenant in industrial estate due to those wastewater is not classified as fresh water and the data is not included reclamation water part.

Effluents quality

GRI Standard	Performance	Unit	Standard	2022	2023	2024	2025
303-4	Water discharge by quality and location*						
	WHA CIE1						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	7.00	5.60	12.1	7.5
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	38.00	39.50	35.00	32.46
	Suspended Solid (SS)	mg/L	≤ 50	8.08	6.17	11.00	7.17
	WHA CIE 2						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	5.00	4.75	<2.00	9.89
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	23.00	33.75	51.00	56.92
	Suspended Solid (SS)	mg/L	≤ 50	10.83	15.00	40.00	32.83
	ESIE Phase 1						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	3	2.9	2.8	4.5
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	43	50.8	39.00	48.9
	Suspended Solid (SS)	mg/L	≤ 50	5.4	5	<5.00	5
	ESIE Phase 2B						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	7	7	3.20	5.50
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	36	42	25.00	29.7
	Suspended Solid (SS)	mg/L	≤ 50	14	18	6.00	10.70
	WHA ESIE 1 Phase 1						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	9	7.70	2.00	10.40
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	42	58.60	64.00	49.50
	Suspended Solid (SS)	mg/L	≤ 50	11.92	15.50	20.00	15.83
	WHA ESIE 1 Phase 3						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	7	5.80	15.50	9.86
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	39	41.20	44.00	41.25
	Suspended Solid (SS)	mg/L	≤ 50	7.8	12.0	7.00	9.42
	WHA ESIE 2						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	5	6.1	12.00	8.36
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	51	51.8	66.00	39.17
	Suspended Solid (SS)	mg/L	≤ 50	21.5	19.4	30.00	16.13
	WHA ESIE 4						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	6	6.8	2.00	5.35
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	38	49.1	29.00	32.08
	Suspended Solid (SS)	mg/L	≤ 50	19.2	20	<5.00	5.58
	WHA EIE						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	3	3	2.00	2.38
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	38	42.4	2.00	31.08
	Suspended Solid (SS)	mg/L	≤ 50	24.25	21.7	6.00	23.08
	WHA RIL						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	8	9.6	19.40	9.24
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	39	47.6	70.00	38.58
	Suspended Solid (SS)	mg/L	≤ 50	13.58	17.8	28.00	14.92
	WHA SIL						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	3	3	2.80	4.02
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	28	38	39.00	37.83
	Suspended Solid (SS)	mg/L	≤ 50	9.8	8.3	15.00	11.17

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

Environmental Certificate

GRI Standard	Performance	Unit	2021	2022	2023	2024
FTSE RUSSELL	Sites covered by recognized environmental management systems					
	Data Coverage of ISO14001 or EMAS	% of Sites	100	100	100	100
	Data Coverage of ISO9001	% of Sites	100	100	100	100

Environmental Compliance

GRI Standard	Performance	Unit	2021	2022	2023	2024
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

SOCIAL PERFORMANCE

Employment

GRI Standard	Performance	Unit	2022		2023		2024		2025		
			Male	Female	Male	Female	Male	Female	Male	Female	
2-7	Total number of employee	Person	182		198		216		229		
			142	40	161	37	171	45	180	49	
			Thailand	140	37	155	35	163	42	168	46
			Vietnam	2	3	6	2	8	3	12	3
	Total employee by age group										
	Below 30 years old	Person	34	14	37	13	40	13	38	9	
		% FTEs	23.94	35.00	22.98	35.14	23.39	28.89	21.11	18.37	
	30-50 years old	Person	93	24	105	23	114	31	124	38	
		% FTEs	65.49	60.00	65.22	62.16	66.67	68.89	68.89	77.55	
	Over 50 years old	Person	15	2	19	1	17	1	18	2	
		% FTEs	10.56	5.00	11.80	2.70	9.94	2.22	10.00	4.08	
	Total employee by level										
	All Management Position										
	Thailand	Person	29	9	31	12	37	15	22	8	
	Vietnam		0	3	2	2	3	3	5	2	
	Total number of management		29	12	33	14	40	18	27	10	
			41		47		58		37		
	Top Management										
	Thailand	Person	7	1	7	0	5	0	3	1	
	Vietnam		0	0	0	0	0	0	0	0	
	Total top management		7	1	7	0	5	0	3	1	
			8		7		5		4		
	Middle Management										
	Thailand	Person	16	6	17	6	24	9	5	1	
	Vietnam		0	3	1	2	2	3	3	2	
	Total middle management		16	9	18	8	26	12	8	3	
			25		26		38		11		
	Junior Management										
	Thailand	Person	6	2	7	6	8	6	14	6	
	Vietnam		0	0	1	0	1	0	2	0	
	Total junior management		6	2	8	6	9	6	16	6	
			8		14		15		22		
	Staff										
	Thailand	Person	111	28	120	20	126	27	146	38	
	Vietnam		2	0	4	0	5	0	7	1	
	Total staff		113	28	124	20	131	27	153	39	
			141		144		158		192		
	Total employee by employment type										
	Permanent employee by region										
	Thailand	Person	139	34	151	35	161	42	165	46	
	Vietnam		2	3	6	2	8	3	12	3	
	Total permanent employee		141	37	157	37	169	45	177	49	
			178		194		214		226		
	Temporary employee by region										
	Thailand	Person	1	3	4	0	2	0	3	0	
	Vietnam		0	0	0	0	0	0	0	0	
	Total temporary employee		1	3	4	0	2	0	3	0	
			4		4		2		3		
	Non-guaranteed hours employee by region										
	Thailand	Person	0	0	0	0	0	0	0	0	
	Vietnam		0	0	0	0	0	0	0	0	
	Total Non-guaranteed hours employee		0	0	0	0	0	0	0	0	
			0		0		0		0		

GRI Standard	Performance	Unit	2022		2023		2024		2025	
			Male	Female	Male	Female	Male	Female	Male	Female
	Full-time employee by region									
	Thailand	Person	140	37	155	35	163	42	169	46
	Vietnam		2	3	6	2	8	3	12	3
	Total full-time employee		142	40	161	37	171	45	181	49
			182		198		216		230	
	Part-time employee by region									
	Thailand	Person	0	0	0	0	0	0	0	0
	Vietnam		0	0	0	0	0	0	0	0
	Total part-time employee		0	0	0	0	0	0	0	0
			0		0		0		0	

GRI Standard	Performance	Unit	2022		2023		2024		2025	
			Male	Female	Male	Female	Male	Female	Male	Female
401-1	New employee hires									
	Total number of new employee hires	Person	29	11	31	7	22	11	25	11
			40		38		33		36	
	New hire rate	% of total employee	21.98		19.19		15.28		15.72	
	Open positions filled by internal candidate (internal hires)	%	NA		5.26		15.15		16.28	
	Average Hiring Cost/ FTE	Baht	NA		21,524.00		20,025.63		26,826.45	
	New employee hires by region									
	Thailand	Person	27	8	27	7	19	10	21	11
		% of total employee	14.84	4.40	13.64	3.54	8.80	4.63	9.17	4.80
	Vietnam	Person	2	3	4	0	3	1	4	0
		% of total employee	1.10	1.65	2.02	0.00	1.39	0.46	1.75	0.00
	New employee hires by nationality									
	Thai	Person	NA	NA	28	7	19	10	21	11
		% of total employee	NA	NA	14.14	3.54	8.80	4.63	9.17	4.80
	Vietnamese	Person	NA	NA	3	0	3	1	4	0
		% of total employee	NA	NA	1.52	0.00	1.39	0.46	1.75	0.00
	American	Person	NA	NA	0	0	0	0	0	0
		% of total employee	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
	Canadian	Person	NA	NA	0	0	0	0	0	0
		% of total employee	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
	French	Person	NA	NA	0	0	0	0	0	0
		% of total employee	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
	Japanese	Person	NA	NA	0	0	0	0	0	0
		% of total employee	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
	New employee hires by management level									
	Top Management									
	Thailand	Person	NA	NA	0	0	0	0	0	0
		% of total employee	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
	Vietnam	Person	NA	NA	0	0	0	0	0	0
		% of total employee	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
	Middle Management									
	Thailand	Person	NA	NA	9	0	4	2	1	0
		% of total employee	NA	NA	4.55	0.00	1.85	0.93	0.44	0.00
	Vietnam	Person	NA	NA	1	2	1	1	1	0
		% of total employee	NA	NA	0.51	1.01	0.46	0.46	0.44	0.00
	Junior/ Low level Management									
	Thailand	Person	NA	NA	0	2	1	1	3	2
		% of total employee	NA	NA	0.00	1.01	0.46	0.46	1.31	0.87
	Vietnam	Person	NA	NA	1	0	0	0	1	0
		% of total employee	NA	NA	0.51	0.00	0.00	0.00	0.44	0.00
	New employee by age									
	Below 30 years old	Person	12	6	12	3	10	2	10	4
		% of total employee	6.59	3.30	6.06	1.52	4.63	0.93	4.37	1.75
	Thailand	Person	10	6	11	3	8	2	9	4

GRI Standard	Performance	Unit	2022		2023		2024		2025		
			Male	Female	Male	Female	Male	Female	Male	Female	
	Vietnam		2	0	1	0	2	0	1	0	
	30-50 years old	Person	16	5	19	4	12	9	15	7	
		% of total employee	8.79	2.75	9.60	2.02	5.56	4.17	6.55	3.06	
	Thailand	Person	16	2	16	4	11	8	12	7	
	Vietnam		0	3	3	0	1	1	3	0	
	Over 50 years old	Person	1	0	0	0	0	0	0	0	
		% of total employee	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Thailand	Persons	1	0	0	0	0	0	0	0	
	Vietnam		0	0	0	0	0	0	0	0	
	Turnover rate										
	Total employee turnover	Person	7	4	12	4	11	3	9	6	
			11		16		14		15		
	Dismissal of Employee	Person	0	0	0	0	0	0	0	0	
	Voluntary Leave	Person	7	4	12	4	11	3	9	6	
	Turnover rate	% of total employee	6.04		8.08		6.48		6.55		
	Voluntary employee turnover	% of total employee	6.04		8.08		6.48		6.55		
	Data coverage (as % of all FTEs globally)	%	100		100		100		100		
	Employee turnover by region										
	Thailand	Person	6	4	12	3	10	3	9	5	
		% of total employee	3.30	2.20	6.06	1.52	4.63	1.39	3.93	2.18	
	Vietnam	Person	1	0	0	1	1	0	0	1	
		% of total employee	0.55	0.00	0.00	0.51	0.46	0.00	0.00	0.44	
	Employee turnover by age										
	Below 30 years old	Person	2	2	5	1	3	1	3	2	
		% of total employee	1.10	1.10	2.53	0.51	1.39	0.46	1.31	0.87	
	Thailand	Person	2	2	5	1	3	1	3	2	
	Vietnam		0	0	0	0	0	0	0	0	
	30-50 years old	Person	4	2	6	3	8	2	7	3	
		% of total employee	2.20	1.10	3.03	1.52	3.70	0.93	3.06	1.31	
	Thailand	Person	3	2	6	2	7	2	7	2	
	Vietnam		1	0	0	1	1	0	0	1	
	Over 50 years old	Person	1	0	1	0	0	0	0	0	
		% of total employee	0.55	0.00	0.51	0.00	0.00	0.00	0.00	0.00	
	Thailand	Person	1	0	1	0	0	0	0	0	
	Vietnam		0	0	0	0	0	0	0	0	
	Turnover by management level										
Top Management											
Thailand	Person	NA	NA	1	0	1	0	3	0		
	% of total employee	NA	NA	0.51	0.00	0.46	0.00	1.31	0.00		
Vietnam	Person	NA	NA	0	0	0	0	0	0		
	% of total employee	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00		
Middle Management											
Thailand	Person	NA	NA	4	0	1	1	1	0		
	% of total employee	NA	NA	2.02	0.00	0.46	0.46	0.44	0.00		
Vietnam	Person	NA	NA	0	1	0	0	0	1		
	% of total employee	NA	NA	0.00	0.51	0.00	0.00	0.00	0.44		

GRI Standard	Performance	Unit	2022		2023		2024		2025	
			Male	Female	Male	Female	Male	Female	Male	Female
	Junior/ Low level Management									
	Thailand	Person	NA	NA	0	0	0	0	0	0
		% of total employee	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
	Vietnam	Person	NA	NA	0	0	0	0	0	0
		% of total employee	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
401-3	Parental leave									
	Employee that were entitled to parental leave	Person	-	36	-	37	171	45	12	3
	Total employee that took parental leave	Person	-	0	-	0	1	0	3	0
	Total employee that returned to work in the reporting period after parental leave ended	Person	-	0	-	0	1	0	3	0
	Total employee that returned to work after parental leave ended that were still employed 12 months after their return to work	Person	-	0	-	0	1	0	3	0
	Total return to work rate	%	-	-	-	-	100	0	100	0
	Total retention rate	%	-	-	-	-	100	0	100	0
404-1	Employee training									
	Total number of training hours provided to employee	Hours	4,396.50		5,338.50		7,764.21		7,320.00	
			3,454.50	942.00	4,222.00	1,116.50	6,362.63	1,401.58	5,911.50	1,408.50
	Average hours of training and development	Hours/FE/Year	24.16		26.96		35.95		31.97	
			24.33	23.55	26.22	30.18	37.21	31.15	32.84	28.74
	Average days of training and development	Days/FT E/Year	1.01		1.12		1.50		1.33	
			1.01	0.98	1.09	1.26	1.55	1.30	1.37	1.20
	Average amount spent on FTE on training and development	Baht	6,022.81		11,057.90		5,543.44		5,672.44	
			5,118.09	9,234.56	10,938.28	11,578.42	6,333.18	2,542.43	6,251.81	3,544.14
	Average hours of training by employee category									
	Total number of executives	Person	8		7		5		4	
	Total number of training hours provided to executives	Hours	254.00		144.00		195.00		175.50	
	Average hours of training for executives	Hours	31.75		20.57		39.00		43.88	
	Total number of middle management	Person	25		26		38		11	
	Total number of training hours provided to middle management	Hours	1048.50		852.50		1670.43		1060.50	
	Average hours of training for middle management	Hours	41.94		32.79		43.96		96.41	
	Total number of junior management	Person	8		14		15		22	
	Total number of training hours provided to junior management	Hours	232.00		332.00		300.00		309.50	
	Average hours of training for junior management	Hours	29.00		23.71		20.00		14.07	
	Total number of staff	Person	141		144		158		192	
	Total number of training hours provided to staffs	Hours	2,862.00		4,010.00		5,598.78		5,771.50	

GRI Standard	Performance	Unit	2022		2023		2024		2025	
			Male	Female	Male	Female	Male	Female	Male	Female
	Average hours of training for staffs	Hours	20.30		27.85		35.44		30.06	
	Average hours of training by age group									
	Below 30 years old	Hours/F TE/Year	NA	NA	26.35	28.27	29.64	19.73	40.63	22.61
	30-50 years old		NA	NA	24.70	30.37	39.70	35.05	31.19	30.24
	Over 50 years old		NA	NA	29.11	45.50	38.29	58.50	27.75	26.50
	Average hours of training by training type									
	In-house training	Hours/F	27.24	33.00	23.85	28.51	34.16	30.35	27.61	26.01
	Public training	TE/Year	3.22	0.00	2.38	1.66	3.05	0.80	5.23	2.67
	Average hours of training by nationality									
	Thai	Hours/F	24.41	25.67	26.50	30.40	38.25	32.25	34.83	30.20
	Others	TE/Year	24.41	25.67	26.22	30.18	15.94	15.67	5.00	5.50
	Human Capital Return on Investment									
	Human Capital Return on Investment (Normalized Basis-)	Times	17		20		19		17.08	
	Human Capital Return on Investment (Reported Basis)	Times	NA		NA		NA		17.17	
404-3	Employees receiving regular performance and career development reviews									
	Total number of employee receiving regular performance and career development reviews by gender	Person	142	40	157	37	169	45	178	49
		%	100.00	100.00	97.52	100.00	98.83	100.00	98.89	100.00
	Performance review by employee category									
	Total number of executives who received regular performance and career development reviews	Person	8		7		5		4	
	Percentage of executive receiving regular performance and career development reviews by employee category	%	100.00		100.00		100.00		100.00	
	Total number of middle management who received regular performance and career development reviews	Person	25		26		38		12	
	Percentage of middle management who received regular performance and career development reviews	%	100.00		100.00		100.00		109.09	
	Total number of junior management who received regular performance and career development reviews	person	8		14		15		22	
	Percentage of junior management who received regular performance and career development reviews	%	100.00		100.00		100.00		100.00	
	Total number of staffs who received regular performance and career development reviews	Person	141		144		158		189	
	Percentage of staffs who received regular performance and career development reviews	%	100.00		100.00		100.00		98.44	
	Trend of Employee Engagement									

GRI Standard	Performance	Unit	2022		2023		2024		2025	
			Male	Female	Male	Female	Male	Female	Male	Female
	Employee Engagement	% of actively engaged employee	72		70		70		66	
	Employee Engagement Target 2025		76							
	Data Coverage	% of total employee	100		99		99		98	
	Data Coverage Target 2025		100							

Labor Practice Indicators

GRI Standard	Performance	Unit	2022		2023		2024		2025	
			Male	Female	Male	Female	Male	Female	Male	Female
405-1	Total number of governance bodies members	Person	3	0	3	0	3	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	
		% governance body	0.00		0.00		0.00		0.00	
	30-50 years old	Person	2		2		2		1	
		% governance body	66.67		66.67		66.67		33.33	
	Over 50 years old	Person	1		1		1		2	
		% governance body	33.33		33.33		33.33		66.67	
	Diversity of total workforce by age group									
	Below 30 years old	Person	34	14	37	13	40	13	38	9
		% of total employee	18.68	7.69	18.69	6.57	18.52	6.02	16.59	3.93
	30-50 years old	Person	93	24	105	23	114	31	125	38
		% of total employee	51.10	13.19	53.03	11.62	52.78	14.35	54.59	16.59
	Over 50 years old	Person	15	2	19	1	17	1	18	2
		% of total employee	8.24	1.10	9.60	0.51	7.87	0.46	7.86	0.87
	Diversity of employees by gender									
	Top management	Person	7	1	7	0	5	0	3	1
		% of management employee	3.85	0.55	3.54	0.00	2.31	0.00	1.31	0.44
	Middle management	Person	16	9	18	8	26	12	9	3
		% of management employee	8.79	4.95	9.09	4.04	12.04	5.56	3.93	1.31
	Junior management	Persons	6	2	8	6	9	6	16	6
		% of management employee	3.30	1.10	4.04	3.03	4.17	2.78	6.99	2.62
	Staff	Person	113	28	124	23	131	27	153	39
		% of management employee	62.09	15.38	62.63	11.62	60.65	12.50	66.81	17.03
	Diversity of employee-by-employee category									
	Top management									
	Below 30 years old	Person	0		0		0		0	

GRI Standard	Performance	Unit	2022		2023		2024		2025	
			Male	Female	Male	Female	Male	Female	Male	Female
405-2		% of management employee	0.00		0.00		0.00		0.00	
	30-50 years old	Person	5		5		4		2	
		% of management employee	12.20		71.43		80.00		50.00	
	Over 50 years old	Person	3		2		1		2	
		% of management employee	7.32		28.57		20.00		50.00	
	Total of top management	Person	8		7		5		4	
	Middle management									
	Below 30 years old	Person	0		0		0		0	
		% of management employee	0.00		0.00		0.00		0.00	
	30-50 years old	Person	23		21		35		12	
		% of management employee	56.10		80.77		92.11		109.09	
	Over 50 years old	Person	2		2		3		0	
		% of management employee	4.88		7.69		7.89		0.00	
	Total of middle management	Person	25		23		38		12	
	Junior management									
	Below 30 years old	Person	0		0		0		0	
		% of management employee	0.00		0.00		0.00		0.00	
	30-50 years old	Person	7		12		14		20	
		% of management employee	17.07		85.71		93.33		90.91	
	Over 50 years old	Person	1		1		1		2	
		% of management employee	2.44		7.14		6.67		9.09	
	Total of junior management	Person	8		13		15		22	
	Staff									
	Below 30 years old	Person	48		47		53		47	
		% of total employee	26.37		23.74		24.54		20.52	
	30-50 years old	Person	82		82		92		129	
		% of total employee	45.05		41.41		42.59		56.33	
	Over 50 years old	Person	11		14		13		16	
		% of total employee	6.04		7.07		6.02		6.99	
	Total of staff	Person	141		143		158		192	
	Employees with disabilities									
	Total	Person	NA	NA	0	0	0	0	0	0
		% of total employee	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00
405-2	Ratio of basic salary and remuneration of women to men									

GRI Standard	Performance	Unit	2022		2023		2024		2025	
			Male	Female	Male	Female	Male	Female	Male	Female
	Executive level (base salary only) ^{/2}	-	-	-	-	-	0.00		0.00	
	Executive level (base salary + other cash incentives) ^{/2}		-	-	-	-	0.00		0.00	
	Management level (base salary only) ^{/2}		-	-	-	-	0.93		0.98	
	Management level (base salary + other cash incentives) ^{/2}		-	-	-	-	1.02		0.99	
	Non-management level (base salary only) ^{/2}		-	-	-	-	1.68		1.41	

Remarks : ^{/1}The stem data in FY2024 and FY2025 cannot be compared to the past due to the new classification in FY2024.

^{/2}The data FY2024 and FY2025 cannot be compared to the past due to the new classification in FY2024.

Collective Bargaining Agreements

GRI Standard	Performance	Unit	2022	2023	2024	2025
2-30	Freedom of Association					
	Percentage of total employees covered by collective bargaining agreements	% of total employee	100	100	100	100

Human Rights

GRI Standard	Performance	Unit	2022	2023	2024	2025
412-1	Operations that have been subjected to human rights review or impact assessments					
	Human Rights Assessment in Own Operations (including Joint Ventures with management control)					
	A. % of total assessed in Own Operation	Sites	11	11	14	14
		% of Sites	100	100	100	100
	B. % of total assessed (of A.) where risks have been identified	Sites	11	11	14	14
		% of Sites	100	100	100	100
	C. % of total assessed (of B.) with mitigation actions taken	Sites	11	11	14	14 -
		% of Sites	100	100	100	100
	Human Rights Assessment in Contractors and Tier-1 Suppliers					
	A. % of total assessed in Contractors and Tier-1 Suppliers	Contractors and Tier-1 Suppliers	-	292	246	367
		% of Contractors and Tier-1 Suppliers	-	100	100	100
	B. % of total assessed (of A.) where risks have been identified	Contractors and Tier-1 Suppliers	-	0	0	0
		% of Contractors and Tier-1 Suppliers	-	0	0	0
	C. % of total assessed (of B.) with mitigation actions taken	Contractors and Tier-1 Suppliers	-	0	0	0
		% of Contractors and Tier-1 Suppliers	-	0	0	0
	Human Rights Assessment in Joint Ventures (including stakes above 10%, and without management control)					
	A. % of total assessed in Contractors and Tier-1 Suppliers	Joint Ventures	NA	NA	NA	NA
		% of Joint Ventures	NA	NA	NA	NA
	B. % of total assessed (of A.) where risks have been identified	Joint Ventures	NA	NA	NA	NA
		% of Joint Ventures	NA	NA	NA	NA
	C. % of total assessed (of B.) with mitigation actions taken	Joint Ventures	NA	NA	NA	NA
		% of Joint Ventures	NA	NA	NA	NA
412-2	Employee training in human rights policies or procedures					
	Total number of hours in the reporting period devoted to training on human rights policies or procedures concerning aspects of human rights that are relevant to operations.	Hours	38	35	30	35
	% of employees trained during the reporting period in human rights policies or procedures concerning aspects of human rights that are relevant to operations.	% of total workforce	100	100	100	100
412-3	Significant investment agreements and contracts that include human rights clauses or that underwent human rights screening					
	Total number of significant investment agreements and contracts	Number	NA	NA	NA	NA
	and percentage	%	NA	NA	NA	NA

Community Development

GRI Standard	Performance	Unit	2022	2023	2024	2025
413-1	Operations with community engagement					
	Total number of Operation Site	Operation unit	11	12	12	15
	- Operation involved with local community engagement	Operation unit	11	12	12	15
		%	100	100	100	100.00
	- Operation involved with social impact assessment	Operation unit	11	12	12	15
		%	100	100	100	100.00
	- Operation with environmental impact assessments and ongoing monitoring	Operation unit	11	12	12	15
		%	100	100	100	100.00
	- Operation involved with public disclosure of results of environmental and social impact assessments	Operation unit	11	12	12	15
		%	100	100	100	100.00
	- Operation involved with local community development programs based on local communities' needs	Operation unit	11	12	12	15
		%	100	100	100	100.00
	- Operation involved with broad-based local community consultation committees and processes that include vulnerable groups	Operation unit	11	12	12	15
		%	100	100	100	100.00
	- Operation involved with works councils, occupational health and safety committees	Operation unit	11	12	12	15
		%	100	100	100	100.00
	Type of Philanthropic Activities					
	Total type of philanthropic activities	% of total costs	100.00	100.00	100.00	100.00
	A) Charitable donations	% of total costs	32.85	19.77	15.48	11.57
	B) Community investment	% of total costs	27.50	19.60	24.54	26.87
	C) Community initiatives	% of total costs	39.65	60.62	59.98	61.56
	Philanthropic Contributions					
	Total amount of Cash contributions	Million Baht	6.37	2.89	2.47	2.02
	Total amount of Time: employee volunteering during paid working hours	Million Baht	3.93	5.61	7.28	5.94
	Total amount of In-kind giving: product or services donations, projects/partnerships or similar	Million Baht	5.33	2.86	3.92	4.70
	Total amount of Management overheads	Million Baht	6.49	4.04	4.51	4.53

Occupational Health and Safety

GRI Standard	Performance	Unit	2022	2023	2024	2025
403-8	Number of worker who are 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;	%	100	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		100	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		-	-	-	-

GRI Standard	Performance	Unit	2022	2023	2024	2025
FTSE RUSSELL	The number of employee and contractor					
	Employee	Person	174	192	194	216
	Contractor		299	344	432	500
403-9	The number of hours worked					
	Employee	Hours	444,553	511,938	541,054	556,564
	Contractor		695,813	885,540	921,218	1,459,778
	Lost time injury frequency rate (LTIFR)					
	Employee	Case per 1,000,000 hours worked	0.00	0.00	0.00	0.00
	Data coverage	% of employee	100	100	100	100
	Contractor	Case per 1,000,000 hours worked	0	0	0	0.69
	Data coverage	% of contractor	100	100	100	100
	Number of high consequences work related injuries					
	Employee	Case per 1,000,000 hours worked	0.00	0.00	0.00	0.00
	Contractor		0.00	0.00	0.00	0.69
	Number of recordable work-related injuries					
	Employee	Case	0	1	0	1
	Contractor		1	1	3	1
	Fatalities as a result of work-related injury					
	Employee	Person	0	0	0	0
	Data Coverage	% of employee	100	100	100	100
	Contractor	Person	0	0	0	0
	Data Coverage	% of contractor	100	100	100	100
	Absentee rate as a result of work-related injury					
	Employee	% of total days scheduled	0	0	0	0
	Target 2025		% of total days scheduled	0		
	Data Coverage	% of employee	100	100	100	100
	Absentee rate					
	Employee	% of total days scheduled	1.25	1.71	1.70	1.73
	Target 2025		% of total days scheduled	1.60		
	Data Coverage	% of employee	100	100	100	100
403-10	Fatalities as a result of work-related ill health					
	Employee	Person	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
FTSE RUSSELL	Safety training					
	Staff trained on safety	Person	72	58	174	99
	Staff trained (General training which includes safety)	Person	38	42	193	55