

Performance Summary

ECONOMIC PERFORMANCE

GRI Standard	Performance	Unit	2021	2022	2023	2024				
P201-1	Direct economic value generated and distributed									
	Direct economic value generated	Later Book	0.400.40	0.500.04	1 101 01	0.000.00				
	Revenue	Million Baht	2,498.16	2,598.84	4,161.91	3,869.60				
	Economic value distributed	l I	4 404 04	4 504 04	4 000 00	4 744 04				
	Operating cost		1,421.21	1,564.01	1,663.88	1,744.64				
	Employee wages and benefits		128.73	182.27	212.39	226.39				
	Annual dividend payment	Million Baht	965.81	841.50	612.00	965.81				
	Payment to the government		44.54	50.72	70.74	57.41				
	Social investment		12.61	16.28	10.12	9.47				
	Economic value retained	Million Baht	74.74	55.94	1,592.78	865.88				
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					1				
	Total amount of political contributions	Baht	0	0	0	0				
	Communication and training on anti-corruption policy t									
	Number of employees	%	100	100	100	100				
	Communication on anti-corruption policy to business p									
	Number of business partners	%	100	100	100	100				
205-3	Confirmed incidents of corruption	ı				1				
	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	Case	0	0	0	0				
	violations related to corruption									
	Public legal cases regarding corruption	Case	0	0	0	0				
	Anti-competitive practice					1				
	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 audite	ed 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 dre in the process of being resolved Violations that have been resolved	Case	0	0	0	0				
	Confirmed incidents of Discrimination or Harassment	0450	<u> </u>	<u> </u>		<u> </u>				
	Total number of confirmed incidents of Discrimination or									
	Harassment	Case	0	0	0	0				
	Confirmed incidents of Conflicts of Interest									
	Total number of confirmed incidents of Conflicts of									
	Interest	Case	0	0	0	0				
	Confirmed incidents of Conflicts of Money Laundering	or Insider tradir	ng							



GRI Standard	Performance	Unit	2021	2022	2023	2024	
	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	70	100	100	100	100	
205-3	Joint Ventures (including stakes above 10%)		100	100	100	100	
203-3	Training Provided						
	Employees		100	100	100	100	
	Contractors/ Suppliers/ Service Providers	%	100	100	100	100	
	Subsidiaries	70	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	2021	2022	2023	2024			
308-1	Supplier Environment Assessment								
	New suppliers that were screened using environmental criteria								
	New suppliers	Number	0	4	0	3			
	New suppliers that were screened using environmental criteria	Number	0	4	0	3			
	New suppliers that were screened using environmental chieria	%	N/A	100	0	100			
308-2	Negative environmental impacts in the supply chain and actions taken								
	Total number of suppliers assessed for environmental impacts	Number	16	14	12	12			
	Suppliers identified as having significant actual and potential	Number	0	0	0	0			
	negative environmental impacts.	Percentage	0	0	0	0			
414-1	Supplier Social Assessment								
	New suppliers that were screened using social criteria								
	New suppliers	Number	0	4	0	3			
	New complians that were correspond using accidentation	Number	0	4	0	3			
	New suppliers that were screened using social criteria	Percentage	N/A	100	N/A	100			
414-2	Negative social impacts in the supply chain and actions taken								
	Total number of suppliers assessed for social impacts	Number	16	14	12	12			
	Suppliers identified as having significant actual and potential	Number	0	0	0	0			
	negative social impacts.	Percentage	0	0	0	0			
S&P CSA	Total tier 1 suppliers								
	Absolute number of suppliers	Number	N/A	N/A	292	246			
	Share of total procurement spent	%	N/A	N/A	100	100			
	Critical tier 1 suppliers								
	Absolute number of suppliers	Number	N/A	N/A	12	12			
	Share of total procurement spent	%	N/A	N/A	79.08	80.42			
	Critical non-tier 1 suppliers								
	Absolute number of suppliers	Number	N/A	N/A	2	2			
	Supply chain risk exposure								
	Tier 1 supplier assessed (for sustainability risks) in the last 3	Number	N/A	N/A	292	246			
	years	%	N/A	N/A	100	100			
	Tier 1 cumpliers elegatified as high risk	Number	N/A	N/A	0	0			
	Tier 1 suppliers classified as high-risk	%	N/A	N/A	0	0			
	Critical non-tier 1 suppliers assessed (for sustainability risks) in the last 3 years	Number	N/A	N/A	12	12			
	Critical non-tier 1 suppliers classified as high-risk Supplier Risk Management Measures	Number	N/A	N/A	0	0			



GRI Standard	Performance	Unit	2021	2022	2023	2024
	Critical suppliers assessed annually	%	N/A	N/A	100	100
	Suppliers with high sustainability risk	T			•	_
	Suppliers with high sustainability risk assessed (ongoing sustainability monitoring) annually	%	N/A	N/A	0	0
	Percentage of current suppliers with high sustainability risk which have corrective action plans	%	N/A	N/A	100	100
S&P CSA	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	N/A	100	100
	Supplier Screening					
	Total number of Tier-1 suppliers	Number		N/A	292	246
	Total number of significant suppliers in Tier-1			N/A	39	47
	% of total spend on significant suppliers in Tier-1	%		N/A	87.11	80.42
	Total number of significant suppliers in non Tier-1	Number		N/A	2	2
	Total number of significant suppliers (Tier-1 and non Tier-1)			N/A	41	49
	Supplier Assessment					
	Total number of suppliers assessed via desk assessments/on-site assessments	Number		N/A	41	49
	% of significant suppliers assessed			N/A	100	100
	Target of significant suppliers assessed for FY2024	%		10	00	•
	Number of suppliers assessed with substantial actual/potential negative impacts	Number		0	0	0
	% of suppliers with substantial actual/potential negative impacts with agreed corrective action/improvement plan	%		0	0	0
	Number of suppliers with substantial actual/potential negative impacts that were terminated	Number		0	0	0
	Corrective action plan support					
	Total number of suppliers supported in corrective action plan implementation	Number		0	0	0
	% of suppliers assessed with substantial actual/potential negative impacts supported in corrective action plan implementation	%		0	0	0
	Target of suppliers supported in corrective action plan implementation	%		11	00	
	Capacity building programs	70		- 11		
	Total number of suppliers in capacity building programs			0	41	47
	% of significant suppliers in capacity building programs	%		0	100	100
	Target of suppliers in capacity building programs Target of suppliers in capacity building programs for FY2024	% Number			00	100
	Supply Chain KPIs	Number		- ''	00	
	KPI 1: % of Acknowledgement of Supplier Code of Conduct	Target: % Target Year: N	Α			
	% off Acknowledgement of Supplier Code of Conduct	%	N/A	N/A	100	100
	KPI 2: % of New Supplier Screening using Pre-Questionnaire Form	Target: % Target Year: N/				
	% of New Supplier Screening using Pre-Questionnaire Form	%	N/A	N/A	100	100
	KPI 3: % of Existing Supplier ESG Performance Evaluation	Target: % Target Year: N/		13/73	100	100
	% of Existing Supplier ESG Performance Evaluation	%	N/A	N/A	100	100



Customer Relationship Management

GRI Standard	Performance	Unit	2021	2022	2023	2024	
S&P CSA	CSA Satisfaction Measurement						
	Catiofied Decreased outs (so 0) of 0) of actions	%	95.34	97.08	96.61	98.1	
	Satisfied Respondents (as % of % of satisfied respondents out of total number of respondents to survey)	Target: 60%					
	respondents out or total number of respondents to survey)	Target Year: 2024					
	Data coverage (% of customers/consumers surveyed)	%	48.83	64.66	56.26	61.29	

Customer Privacy

GRI Standard	Performance	Unit	2021	2022	2023	2024		
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, of losses of customer data	Incident	0	0	0	0		

Information Security/ Cybersecurity

GRI Standard	Performance	Unit	2021	2022	2023	2024		
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

Waste

GRI Standard	Performance	Unit	2021	2022	2023	2024			
306-3	Waste composition								
	Total Waste		5,645.76	5,830.58	7,698.84	11,404.66			
	Hazardous waste	Tons	7.02	7.34	3.85	2.38			
	Non-hazardous waste		5,638.74	5,823.24	7,694.99	11,402.28			
	Total Waste and Waste-to-Revenue Ratio	(Ton/ MB Revenue)	NA	2.24	1.85	2.30			
	Target year 2025 Total Waste and Waste- to-Revenue Ratio	(Ton/ MB Revenue)		2.0	00				
	Data coverage	% of Revenue	100	100	100	100			
306-4	Hazardous waste diverted from disposal by	recovery option	on						
	Total		7.02	7.34	3.85	2.38			
	- Preparation for reuse	Tons	0	0	0	0			
	- Recycling	10113	0	0	1.60	1.22			
	- On-site storage		7.02	7.34	2.25	1.16			
	Total Hazardous Waste-to-Revenue Ratio	(Ton/ MB Revenue)	0.001	0.001	0.003	0.003			
	Target year 2025 Total Hazardous Waste-to-Revenue Ratio	(Ton/ MB Revenue)	0						
	Data coverage	% of Revenue	100	100	100	100			
	Non-hazardous waste diverted from disposal by recovery option								
	Total		5,638.74	5,823.24	7,694.99	11,402.28			
	- Preparation for reuse	Tons	0	0	0	0			
	- Recycling	10113	4,319.12	3,957.87	6,631.99	4,645.32			
	- On-site storage		1,319.62	1,865.37	1,063.00	6,756.96			
	Total Hazardous Waste-to-Revenue Ratio	(Ton/ MB Revenue)	1.46	1.85	2.24	2.26			
	Target year 2025 Target Total Non- hazardous Waste and Waste-to-Revenue Ratio	(Ton/ MB Revenue)		2					
	Data coverage	% of Revenue	100	100	100	100			
S&P CSA	Total waste recycled / reused	Tons	0	0	1.60	1.22			
	Total waste disposed	Tons	1,960.10	5,376.82	6,633.59	4,646.54			
	Total waste landfilled		1,939.16	1,418.95	1.60	1.22			
	Total incineration (with energy recovery)		0	0	0	0			
	Total incineration (without energy recovery)	Tons	0	0	0	0			
	Total waste recycled / reused		23.94	3,957.87	6,631.99	4,645.32			
	Total waste with unknown disposal method		0	0	0	0			
	Data coverage	% of Revenue	100	100	100	100			



GRI Standard	Performance	Unit	2021	2022	2023	2024		
FTSE	Raw material used							
RUSSELL	Total Raw Material		81,501.91	82,033.25	90,265.50	94,810.73		
	- Non-renewable materials used by freshwater withdrawal	Tons	74,550.97	74,775.54	82,804.05	86,961.42		
	- Renewable materials used by wastewater		6,950.94	7,257.71	7,461.45	7,849.31		

Energy

GRI Standard	Performance	Unit	2021	2022	2023	2024			
302-1	Energy consumption within the organizat	ion		<u> </u>	<u> </u>				
	Energy consumption from non-renewable	sources							
	Total non-renewable energy consumption	MWh	29,618.02	29,326.46	32,793.39	37,639.24			
	Diesel/ Petrol/ Gasoline	MWh	56.9	1,113	1,503	1,694			
	Grid electricity consumption	MWh	29,561.2	28,213.70	31,290.41	35,945.12			
	Total non-renewable energy consumption intensity ratio	MWh/THB mm	11.9	7.58	7.88	9.73			
	Target 2024	MWh		31,	809				
	Energy consumption from renewable sou	rce Scope							
	Total renewable energy consumption	MWh	491.46	1,681.69	1,598.26	1,159.72			
	Solar power	MWh	491.46	1,681.69	1,598.26	1,159.72			
	Percentage of electricity from renewable sources (wind, water, solar, biogas) used in buildings in portfolio	%	1.66	5.15	5.40	3.33			
	Total energy consumption								
	Total	MWh	30,109.48	31,008.15	34,391.65	38,798.96			
	Data coverage for Energy Consumption								
	Data coverage	% of revenue	100	100	100	100			
	Type of energy consumption								
	Electricity		29,561.20	28,213.70	31,290.41	35,945.12			
	Heating	MWh	56.90	1,112.76	1,502.98	1,694.12			
	Cooling		-	-	-	-			
	Steam		-	-	-	-			
	Energy usage data on properties								
	WHA Utilities and Power	MWh	30,109.48	31,008.15	34,391.65	38,798.96			
	Type of energy sold								
	Electricity		52,767.61	72,135.23	112,921.00	157,354.76			
	Heating	MWh	-	-	-	-			
	Cooling	IVIVVII	-	-	-	-			
	Steam		-	-	-	-			
302-2	Energy consumption outside of the organ								
	Total energy consumption	MWh	56.90	61.70	68.90	83.56			
302-3	Energy intensity								
	Energy intensity ratio	MWh/THB mm	11.83	13.21	7.49	9.31			
	Energy intensity ratio	MWh/ton production	N/A	N/A	N/A	N/A			
FTSE	Electricity production by energy type								
RUSSELL	Solar		52,767.61	72,135.23	112,921.00	157,354.76			
	Wind	MWh	NA	NA	NA	NA			
	Hydro	1010011	51,255.00	52,745.48	50,490.00	54,396.60			
	Geothermal		NA	NA	NA	NA			



GRI Standard	Performance	Unit	2021	2022	2023	2024
	Biomass		NA	NA	NA	NA
	Oil		NA	NA	NA	NA
	Gas		NA	NA	NA	NA
	CCGT		1,686,200.23	1,637,723.02	1,636,740.36	1,632,657.42
	Nuclear		NA	NA	NA	NA
	Waste-to-energy		1,039.45	803.61	400.13	558.55
	Coal power plant		1,530,550.00	1,648,150.00	70,700.00	1,396,252.91
	Total Renewable		105,062.06	125,684.32	163,811.13	212,309.91
	Total Non-Renewable		3,216,750.23	3,285,873.02	1,707,440.36	3,028,910.33

GHG Emission

GRI Standard	Performance	Unit	2021	2022	2023	2024				
305-1	Scope 1 emissions									
	Total scope 1 emissions	ton CO2e	274	356	415	447				
	Data coverage	% of Revenue	100	100	100	100				
	Scope 1 Biogenic CO2 emissions									
	Total Scope 1 Biogenic CO2 emissions	ton CO ₂ e	22.24	26.57	29.56	40				
	Data Coverage	% of Revenue	100	100	100	100				
305-2	Scope 2 emissions									
	Market-based	ton CO2e	13,458	12,083	12,944	16,185				
	Location -based	ton CO2e			15,038	17,068				
	Data coverage	% of Revenue	100	100	100	100				
305-3	Scope 3 emissions									
	Scope 3	ton CO2e	2,166,414	2,086,915	2,162,538	2,153,900				
	Data coverage	% of Revenue	100	100	100	100				
	Total Emission									
	Scope 1 + Scope 3	ton CO ₂ e	2,166,688	2,087,271	2,162,953	2,170,084				
	Scope 1 + Scope 2 + Scope 3	ton CO2e	2,180,146	2,099,354	2,175,897	2,170,532				
	Scope 3 Category		2,166,414.00	2,086,915.00	2,162,538	2,153,899				
	Purchased Goods and Services		2,988.64	13,490.11	16,163.30	39,401.87				
	Capital Goods		NA	NA	78,049.64	9,002.26				
	Fuel-and-energy-related activities (not included in Scope 1 or 2)	_ _ _	2,656.97	2,881.30	3,082.27	3,884.79				
	Upstream transportation and distribution		NA	NA	2,310.91	135.68				
	Waste generated in operations		14,674.42	6,249.38	3,404.09	2,520.92				
	Business travel		NA	NA	NA	NA				
	Employee commuting		1,279	1,375	390.82	424.26				
	Upstream leased assets		NA	NA	NA	NA				
FTSE RUSSELL	Downstream transportation and distribution	ton CO₂e	NA	NA	NA	NA				
	Processing of sold products		NA	NA	NA	NA				
	Use of sold products		NA	NA	NA	NA				
	End of life treatment of sold products		1,343	1,343	11,343.11	667.23				
	Downstream leased assets		NA	NA	NA	NA				
	Franchises		NA	NA	NA	NA				
	Investments		2,047,794	2,047,794	2,047,794	2,097,862				
	Other upstream		NA NA	NA NA	NA NA	NA				
	Other downstream		NA	NA NA	NA NA	NA NA				
	Data coverage	% of Revenue	100	100	NA NA	100				
	GHG emissions per megawatt-hr									
	GHG emissions per megawatt-hr	ton CO ₂ e/	0.67	0.64	1.27	0.71				
305-4	GHG emissions intensity ratio	1117111	0.07	0.01	1121					



GRI Standard	Performance	Unit	2021	2022	2023	2024			
	Scope 1	Tons CO2e/THBMM	0.11	0.14	0.10	0.12			
	Scope 2		5.39	4.65	3.11	4.18			
305-4	Scope 3	Tons	867.20	803.02	519.60	556.62			
	Total Scope 1 + Scope 2 + Scope 3	CO2e/THBMM	872.70	807.80	522.81	560.92			
305-5	Scope 1 emissions reduction								
	Total scope 1 emissions	ton CO2e	286	82	0	0			
	Scope 2 emissions reduction								
	Total scope 2 emissions	ton CO ₂ e	96	1,375	861	579.74			

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	2021	2022	2023	2024
303-3	Water withdrawal by source					
	Total Fresh water withdrawal (fresh water + wastewater)		96,217.58	96,785.22	104,245.97	111,406.39
	Total freshwater withdrawal		74,550.97	74,775.54	82,804.05	86,961.42
	- Fresh surface water		8,254.60	9,696.35	8,589.54	8,932.00
	- Fresh groundwater		0	0	0	0
	- Third party water		66,296.37	65,079.19	74,214.51	78,029.42
	- Used quarry water collected in the quarry		N/A	N/A	N/A	N/A
	- External wastewater	MI	21,666.61	22,009.68	21,441.92	24,444.97
	- Harvested rainwater		N/A	9.696.35	8,589.54	8.932.00
	- Sea water		N/A	9,696.35	8,589.54	8,932.00
	Wastewater withdrawal		21,666.61	22,009.68	21,441.92	24,444.97
	Total water withdrawal from area with water stress		N/A	96,785.22	104,245.97	111,406.39
	Total freshwater withdrawal from area with water stress		N/A	74,775.54	82,804.05	86,961.42
	- Fresh surface water		N/A	9,696.35	8,589.54	8,932.00
	- Third party water		N/A	65,079.19	74,214.51	78,029.42
	Wastewater withdrawal from area with water stress		N/A	22,009.68	21,441.92	24,444.97
	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		90,723.13	94,542.29	97,513.00	106,649.18
	- Surface water		12,207.64	12,087.68	11,637.57	19,342.38
	- Seawater		2,180.59	2,460.56	1,962.10	2,377.28
	- Water products sale		76,334.91	79,994.06	83,913.34	84,928.93
	- Subsurface / well		12,207.64	12,087.68	11,637.57	19,342.98
	- Off-site water treatment	MI	14,388.23	14,548.24	13,599.67	21,720.26
	Total water discharge (exclude salt water)		88,542.54	92,081.74	95,550.91	104,271.91
	Total water discharge from area with water stress		N/A	94,542.29	97,513.00	106,649.18
	- Surface water		N/A	12,087.68	11,637.57	19,342.98
	- Seawater		N/A	2,460.56	1,962.10	2,377.28



GRI Standard	Performance	Unit	2021	2022	2023	2024				
	- Water products sale		N/A	79,994.06	83,913.34	84,928.93				
	Percentage of water discharge from area with water stress	%	100	100	100	100				
	Data coverage	% of Revenue	100	100	100	100				
	Water Consumption	MI	5,494.45	2,242.93	6,732.97	4,757.20				
	Water discharge by category									
	Freshwater (≤ 1,000 mg/L Total Dissolved Solids)	MI	88,542.54	92,081.74	95,550.91	104,271.91				
	Other water (≤ 1,000 mg/L Total Dissolved Solids)	IVII	2,180.59	2,460.56	1,962.10	2,377.28				
	Discharge: Water returned to the source of extraction at similar or higher quality as raw water extracted	MI	14,388.23	14,548.24	13,599.67	21,720.26				
FTSE	Water supply data by the Water Utility									
RUSSELL	Water supply data by the Water Utility	MI	76,334.91	79,994.06	83,913.34	84,928.93				
	Raw Water		22,385.10	25,665.32	31,922.33	31,916.66				
	Premium Clarified Water		4,392.16	5,263.26	5,794.20	5,353.36				
	Industrial Water		49,557.65	49,065.32	46,196.81	47,658.92				
	Data coverage	% of Revenue	100	100	100	100				
	Power generation water withdrawal / cons	Power generation water withdrawal / consumption intensity								
	Water withdrawal intensity per unit of electricity generated	m³/MWh	3.17	3.51	3.24	3.13				
	Water consumption intensity per unit of electricity generated	m³/MWh	0.19	0.08	0.22	0.14				



Effluents quality

Water discharge by quality and location* WHA CIE1 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 8.50 7.00 5.60	2024
Biochemical Oxygen Demand (BOD) mg/L ≤ 20 8.50 7.00 5.60	
Chemical Oxygen Demand (COD) mg/L ≤ 120 37.64 38.00 39.50 Suspended Solid (SS) mg/L ≤ 50 7.43 8.08 6.17 WHA CIE 2 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 3.83 5.00 4.75 Chemical Oxygen Demand (COD) mg/L ≤ 120 33.25 23.00 33.75 Suspended Solid (SS) mg/L ≤ 50 13.83 10.83 15.00 ESIE Phase 1 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 6.4 3 2.9 Chemical Oxygen Demand (COD) mg/L ≤ 120 51.25 43 50.8 Suspended Solid (SS) mg/L ≤ 50 7.5 5.4 5 ESIE Phase 2B Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.6 7 7 Chemical Oxygen Demand (BOD) mg/L ≤ 120 30 36 42 Suspended Solid (SS) mg/L ≤ 20 4.6 7 7 7 Chemical Oxygen Demand (BOD) <td></td>	
Suspended Solid (SS)	12.1
Suspended Solid (SS)	35.00
WHA CIE 2 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 3.83 5.00 4.75 Chemical Oxygen Demand (COD) mg/L ≤ 120 33.25 23.00 33.75 Suspended Solid (SS) mg/L ≤ 50 13.83 10.83 15.00 ESIE Phase 1	44.00
Biochemical Oxygen Demand (BOD)	11.00
Chemical Oxygen Demand (COD) mg/L ≤ 120 33.25 23.00 33.75 Suspended Solid (SS) mg/L ≤ 50 13.83 10.83 15.00 ESIE Phase 1 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 6.4 3 2.9 Chemical Oxygen Demand (COD) mg/L ≤ 120 51.25 43 50.8 Suspended Solid (SS) mg/L ≤ 50 7.5 5.4 5 ESIE Phase 2B Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.6 7 7 Chemical Oxygen Demand (COD) mg/L ≤ 120 30 36 42 Suspended Solid (SS) mg/L ≤ 50 10 14 18 WHA ESIE 1 Phase 1 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.3 9 7.70 Chemical Oxygen Demand (COD) mg/L ≤ 120 31.67 42 58.60 Suspended Solid (SS) mg/L ≤ 20 5.8 7 5.80 Chemical Oxygen Dema	-0.00
Suspended Solid (SS)	<2.00
Biochemical Oxygen Demand (BOD) mg/L ≤ 20 6.4 3 2.9	51.00
Biochemical Oxygen Demand (BOD) mg/L ≤ 20 6.4 3 2.9 Chemical Oxygen Demand (COD) mg/L ≤ 120 51.25 43 50.8 Suspended Solid (SS) mg/L ≤ 50 7.5 5.4 5 ESIE Phase 2B Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.6 7 7 Chemical Oxygen Demand (SOD) mg/L ≤ 120 30 36 42 Suspended Solid (SS) mg/L ≤ 50 10 14 18 WHA ESIE 1 Phase 1 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.3 9 7.70 Chemical Oxygen Demand (COD) mg/L ≤ 120 31.67 42 58.60 Suspended Solid (SS) mg/L ≤ 50 10 11.92 15.50 WHA ESIE 1 Phase 3 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 5.8 7 5.80 Chemical Oxygen Demand (BOD) mg/L ≤ 20 5.8 7 5.80 WHA ESIE	40.00
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Suspended Solid (SS) mg/L ≤ 50 7.5 5.4 5 ESIE Phase 2B Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.6 7 7 Chemical Oxygen Demand (COD) mg/L ≤ 120 30 36 42 Suspended Solid (SS) mg/L ≤ 50 10 14 18 WHA ESIE 1 Phase 1 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.3 9 7.70 Chemical Oxygen Demand (COD) mg/L ≤ 120 31.67 42 58.60 Suspended Solid (SS) mg/L ≤ 50 10 11.92 15.50 WHA ESIE 1 Phase 3 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 5.8 7 5.80 Chemical Oxygen Demand (COD) mg/L ≤ 20 5.8 7 5.80 WHA ESIE 2 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.7 5 6.1 WHA ESIE 3 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.7 5 6.1	2.8
Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.6 7 7 7	39.00
Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.6 7 7 Chemical Oxygen Demand (COD) mg/L ≤ 120 30 36 42 Suspended Solid (SS) mg/L ≤ 50 10 14 18 WHA ESIE 1 Phase 1 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.3 9 7.70 Chemical Oxygen Demand (COD) mg/L ≤ 120 31.67 42 58.60 Suspended Solid (SS) mg/L ≤ 50 10 11.92 15.50 WHA ESIE 1 Phase 3 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 5.8 7 5.80 Chemical Oxygen Demand (COD) mg/L ≤ 120 38.70 39 41.20 Suspended Solid (SS) mg/L ≤ 50 6.8 7.8 12.0 WHA ESIE 2 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.7 5 6.1 Chemical Oxygen Demand (SS) mg/L ≤ 120 41.45 51 51.8 <tr< td=""><td><5.00</td></tr<>	<5.00
Chemical Oxygen Demand (COD) mg/L ≤ 120 30 36 42 Suspended Solid (SS) mg/L ≤ 50 10 14 18 WHA ESIE 1 Phase 1 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.3 9 7.70 Chemical Oxygen Demand (COD) mg/L ≤ 120 31.67 42 58.60 Suspended Solid (SS) mg/L ≤ 50 10 11.92 15.50 WHA ESIE 1 Phase 3 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 5.8 7 5.80 Chemical Oxygen Demand (COD) mg/L ≤ 120 38.70 39 41.20 Suspended Solid (SS) mg/L ≤ 50 6.8 7.8 12.0 WHA ESIE 2 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.7 5 6.1 Chemical Oxygen Demand (COD) mg/L ≤ 120 41.45 51 51.8 Suspended Solid (SS) mg/L ≤ 20 4.8 6 6.8	0.00
Suspended Solid (SS) mg/L ≤ 50 10 14 18 WHA ESIE 1 Phase 1 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.3 9 7.70 Chemical Oxygen Demand (COD) mg/L ≤ 120 31.67 42 58.60 Suspended Solid (SS) mg/L ≤ 50 10 11.92 15.50 WHA ESIE 1 Phase 3 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 5.8 7 5.80 Chemical Oxygen Demand (COD) mg/L ≤ 120 38.70 39 41.20 Suspended Solid (SS) mg/L ≤ 50 6.8 7.8 12.0 WHA ESIE 2 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.7 5 6.1 Chemical Oxygen Demand (COD) mg/L ≤ 120 41.45 51 51.8 Suspended Solid (SS) mg/L ≤ 50 15.45 21.5 19.4 WHA ESIE 4 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.8 6 6.8 <th< td=""><td>3.20</td></th<>	3.20
WHA ESIE 1 Phase 1 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.3 9 7.70 Chemical Oxygen Demand (COD) mg/L ≤ 120 31.67 42 58.60 Suspended Solid (SS) mg/L ≤ 50 10 11.92 15.50 WHA ESIE 1 Phase 3 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 5.8 7 5.80 Chemical Oxygen Demand (COD) mg/L ≤ 120 38.70 39 41.20 Suspended Solid (SS) mg/L ≤ 50 6.8 7.8 12.0 WHA ESIE 2 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.7 5 6.1 Chemical Oxygen Demand (COD) mg/L ≤ 120 41.45 51 51.8 Suspended Solid (SS) mg/L ≤ 50 15.45 21.5 19.4 WHA ESIE 4 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.8 6 6.8 Chemical Oxygen Demand (COD) mg/L ≤ 120 34.1 38 49.1 Suspended Solid (SS) mg/L ≤ 50 <t< td=""><td>25.00</td></t<>	25.00
Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.3 9 7.70 Chemical Oxygen Demand (COD) mg/L ≤ 120 31.67 42 58.60 Suspended Solid (SS) mg/L ≤ 50 10 11.92 15.50 WHA ESIE 1 Phase 3 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 5.8 7 5.80 Chemical Oxygen Demand (COD) mg/L ≤ 120 38.70 39 41.20 Suspended Solid (SS) mg/L ≤ 50 6.8 7.8 12.0 WHA ESIE 2 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.7 5 6.1 Chemical Oxygen Demand (COD) mg/L ≤ 120 41.45 51 51.8 Suspended Solid (SS) mg/L ≤ 50 15.45 21.5 19.4 WHA ESIE 4 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.8 6 6.8 Chemical Oxygen Demand (COD) mg/L ≤ 120 34.1 38 49.1 Susp	6.00
Chemical Oxygen Demand (COD) mg/L ≤ 120 31.67 42 58.60 Suspended Solid (SS) mg/L ≤ 50 10 11.92 15.50 WHA ESIE 1 Phase 3 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 5.8 7 5.80 Chemical Oxygen Demand (COD) mg/L ≤ 120 38.70 39 41.20 Suspended Solid (SS) mg/L ≤ 50 6.8 7.8 12.0 WHA ESIE 2 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.7 5 6.1 Chemical Oxygen Demand (COD) mg/L ≤ 120 41.45 51 51.8 Suspended Solid (SS) mg/L ≤ 50 15.45 21.5 19.4 WHA ESIE 4 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.8 6 6.8 Chemical Oxygen Demand (COD) mg/L ≤ 120 34.1 38 49.1 Suspended Solid (SS) mg/L ≤ 50 17.5 19.2 20	
Suspended Solid (SS) mg/L ≤ 50 10 11.92 15.50 WHA ESIE 1 Phase 3 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 5.8 7 5.80 Chemical Oxygen Demand (COD) mg/L ≤ 120 38.70 39 41.20 Suspended Solid (SS) mg/L ≤ 50 6.8 7.8 12.0 WHA ESIE 2 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.7 5 6.1 Chemical Oxygen Demand (COD) mg/L ≤ 120 41.45 51 51.8 Suspended Solid (SS) mg/L ≤ 50 15.45 21.5 19.4 WHA ESIE 4 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.8 6 6.8 Chemical Oxygen Demand (COD) mg/L ≤ 120 34.1 38 49.1 Suspended Solid (SS) mg/L ≤ 120 34.1 38 49.1 WHA EIE	2.00
WHA ESIE 1 Phase 3 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 5.8 7 5.80 Chemical Oxygen Demand (COD) mg/L ≤ 120 38.70 39 41.20 Suspended Solid (SS) mg/L ≤ 50 6.8 7.8 12.0 WHA ESIE 2 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.7 5 6.1 Chemical Oxygen Demand (COD) mg/L ≤ 120 41.45 51 51.8 Suspended Solid (SS) mg/L ≤ 50 15.45 21.5 19.4 WHA ESIE 4 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.8 6 6.8 Chemical Oxygen Demand (COD) mg/L ≤ 120 34.1 38 49.1 Suspended Solid (SS) mg/L ≤ 50 17.5 19.2 20 WHA EIE	64.00
$\begin{array}{ c c c c c c }\hline Biochemical Oxygen Demand (BOD) & mg/L & \leq 20 & 5.8 & 7 & 5.80 \\ \hline Chemical Oxygen Demand (COD) & mg/L & \leq 120 & 38.70 & 39 & 41.20 \\ \hline Suspended Solid (SS) & mg/L & \leq 50 & 6.8 & 7.8 & 12.0 \\ \hline \hline \textbf{WHA ESIE 2} & & & & & & & & & & & & & & & & & & $	20.00
Chemical Oxygen Demand (COD) mg/L ≤ 120 38.70 39 41.20 Suspended Solid (SS) mg/L ≤ 50 6.8 7.8 12.0 WHA ESIE 2 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.7 5 6.1 Chemical Oxygen Demand (COD) mg/L ≤ 120 41.45 51 51.8 Suspended Solid (SS) mg/L ≤ 50 15.45 21.5 19.4 WHA ESIE 4 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.8 6 6.8 Chemical Oxygen Demand (COD) mg/L ≤ 120 34.1 38 49.1 Suspended Solid (SS) mg/L ≤ 50 17.5 19.2 20 WHA EIE	
Suspended Solid (SS) mg/L ≤ 50 6.8 7.8 12.0 WHA ESIE 2 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.7 5 6.1 Chemical Oxygen Demand (COD) mg/L ≤ 120 41.45 51 51.8 Suspended Solid (SS) mg/L ≤ 50 15.45 21.5 19.4 WHA ESIE 4 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.8 6 6.8 Chemical Oxygen Demand (COD) mg/L ≤ 120 34.1 38 49.1 Suspended Solid (SS) mg/L ≤ 50 17.5 19.2 20 WHA EIE	15.50
WHA ESIE 2 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.7 5 6.1 Chemical Oxygen Demand (COD) mg/L ≤ 120 41.45 51 51.8 Suspended Solid (SS) mg/L ≤ 50 15.45 21.5 19.4 WHA ESIE 4 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.8 6 6.8 Chemical Oxygen Demand (COD) mg/L ≤ 120 34.1 38 49.1 Suspended Solid (SS) mg/L ≤ 50 17.5 19.2 20 WHA EIE	44.00
$\begin{array}{ c c c c c c c }\hline Biochemical Oxygen Demand (BOD) & mg/L & \leq 20 & 4.7 & 5 & 6.1 \\\hline Chemical Oxygen Demand (COD) & mg/L & \leq 120 & 41.45 & 51 & 51.8 \\\hline Suspended Solid (SS) & mg/L & \leq 50 & 15.45 & 21.5 & 19.4 \\\hline \hline \textbf{WHA ESIE 4} & Biochemical Oxygen Demand (BOD) & mg/L & \leq 20 & 4.8 & 6 & 6.8 \\\hline Chemical Oxygen Demand (COD) & mg/L & \leq 120 & 34.1 & 38 & 49.1 \\\hline Suspended Solid (SS) & mg/L & \leq 50 & 17.5 & 19.2 & 20 \\\hline \textbf{WHA EIE} & & & & & & & \\\hline \end{array}$	7.00
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Suspended Solid (SS) mg/L ≤ 50 15.45 21.5 19.4 WHA ESIE 4 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.8 6 6.8 Chemical Oxygen Demand (COD) mg/L ≤ 120 34.1 38 49.1 Suspended Solid (SS) mg/L ≤ 50 17.5 19.2 20 WHA EIE	12.00
WHA ESIE 4 Biochemical Oxygen Demand (BOD) mg/L ≤ 20 4.8 6 6.8 Chemical Oxygen Demand (COD) mg/L ≤ 120 34.1 38 49.1 Suspended Solid (SS) mg/L ≤ 50 17.5 19.2 20 WHA EIE	66.00
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	30.00
Chemical Oxygen Demand (COD) mg/L ≤ 120 34.1 38 49.1 Suspended Solid (SS) mg/L ≤ 50 17.5 19.2 20 WHA EIE	
Suspended Solid (SS) mg/L ≤ 50 17.5 19.2 20 WHA EIE	2.00
WHA EIE	29.00
	<5.00
Biochemical Oxygen Demand (BOD) mg/l ≤ 20 4.00 3 3	
	2.00
Chemical Oxygen Demand (COD)mg/L \leq 12042.583842.4	2.00
Suspended Solid (SS) mg/L ≤ 50 11.6 24.25 21.7	6.00
WHA RIL	
Biochemical Oxygen Demand (BOD) mg/L ≤ 20 7.83 8 9.6	19.40
Chemical Oxygen Demand (COD) mg/L ≤ 120 37.16 39 47.6	70.00
Suspended Solid (SS) mg/L ≤ 50 10.83 13.58 17.8	28.00
WHA SIL	
Biochemical Oxygen Demand (BOD) mg/L ≤ 20 3 3 3	2.80
Chemical Oxygen Demand (COD) mg/L ≤ 120 35 28 38	39.00
Suspended Solid (SS) mg/L ≤ 50 10.6 9.8 8.3 Note: WHALIP is responsible for water discharge quality of all WHA Industrial Estates, therefore, the data are reported by industrial estate location.	15.00

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	2021	2022	2023	2024
	Ambient air quality monitoring by i	ndustrial e	estate operatio	n*			
	WHA ESIE Location 1: Chompon Chao Phraya	Tamada					
	NOx		≤ 0.17	0.004-0.011	0.0139-0.0344	0.0045-0.0050	0.0100-0.0197
	SOx	ppm mg/m³	≤ 0.17	0.0185-0.0204	0.0021-0.0024	0.005-0.010	0.0026-0.0049
	Volatile organic compounds (VOC)	Kilogra	- 0.0	NA	NA	NA	NA
	Total Suspended Particulate (TSP)	ms mg/m³	≤ 0. 33	0.065-0.080	0.019-0.035	0.018-0.034	0.017-0.042
	Particulate matter10 (PM10)	mg/m³	< 0.12	-	-	-	-
	Location 2: Klong Gram Temple	, .	V				
	NOx	ppm	≤ 0.17	** 0.006-0.008	0.0143-0.0268	0.0106-0.0138	0.0087-0.0239
	SOx	mg/m³	≤ 0.3	**0.0217-0.0253	0.0018-0.0027	0.003-0.005	0.0108-0.0174
	Volatile organic compounds (VOC)	Kilogra ms	-	NA	NA	NA	NA
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.051-0.092	0.017-0.035	0.020-0.042	0.028-0.055
	Particulate matter10 (PM10)	mg/m³	< 0.12	-	-	-	
	Location 3: Ras Asadaram Temple	ı	T				
	NOx	ppm	≤ 0.17	** 0.006-0.010	0.0136-0.0320	0.0021-0.0029	0.0107-0.0205
	SOx	mg/m³	≤ 0.3	**0.0124-0.0146	0.0026-0.0029	0.007-0.029	0.0122-0.0169
	Volatile organic compounds (VOC)	Kilogra ms	-	NA	NA	NA	NA
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	** 0.114-0.236	0.037-0.096	0.041-0.081	0.062-0.177
	Particulate matter10 (PM10)	mg/m³	< 0.12	-	-	-	-
	Location 4: Ban Wang Ta Pin	ı		*** 0 000 0 00=	0.0400.0040	0.00=1.0.0001	
	NOx	ppm	≤ 0.17	** 0.003-0.007	0.0132-0.0310	0.0051-0.0061	0.0137-0.0189
SET ESG	SOx	mg/m³	≤ 0.3	**0.0088-0.0096	0.0016-0.0028	0.004-0.008	0.0057-0.0073
RATING/ FTSE	Volatile organic compounds (VOC)	Kilogra ms	-	NA	NA	NA	NA
RUSSELL	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.059-0.282	0.018-0.100	0.031-0.099	0.041-0.090
	Particulate matter10 (PM10)	mg/m³	< 0.12	-	-	-	-
	Location 5: Ban Map Lang School	I	1047	**0 007 0 040	0.0440.0.0040	0.0000.0.0004	0.0000.0.0400
	NOx SOx	ppm	≤ 0.17 ≤ 0.3	**0.007-0.012 **0.0060-0.0067	0.0119-0.0248	0.0023-0.0031	0.0080-0.0162
	Volatile organic compounds (VOC)	mg/m³ Kilogra	≤ 0.3	NA	0.0023-0.0030 NA	0.004-0.012 NA	0.0012-0.0020 NA
	. , ,	ms	-				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.065-0.077	0.018-0.044	0.014-0.041	0.027-0.046
	Particulate matter10 (PM10) Location 6: Sri Sattanaram Monk C	mg/m³	< 0.12	-	-	<u>-</u>	-
	NOx		≤ 0.17	**0.005-0.011	0.0145-0.0312	0.0014-0.0028	0.0086-0.0199
	SOx	ppm mg/m³	≤ 0.17 ≤ 0.3	**0.0045-0.0060	0.0022-0.0030	<0.0014-0.0028	0.0017-0.0026
	Volatile organic compounds (VOC)	Kilogra	- 0.0	NA	NA	NA	NA
	Total Suspended Particulate (TSP)	ms mg/m³	≤ 0. 33	**0.056-0.078	0.018-0.039	0.014-0.026	0.019-0.039
	Particulate matter10 (PM10)	mg/m³	< 0.12	-	-	-	-
	WHA ESIE1	,	3112				
	Location 1: Eastern Sugar Compar	ıv Commu	nity School				
	NOx	ppm	≤ 0.17	** 0.001-0.030	0.0086-0.0333	0.014-0.060	0.0045-0.0096
	SOx	mg/m³	≤ 0.12	**0.0045-0.0060	0.0019-0.0031	0.0081-0.0176	0.0037-0.0044
	Volatile organic compounds (VOC)	Kilogra ms	-	NA	NA	NA	NA
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.030-0.231	0.033-0.079	0.044-0.224	0.054-0.137
	Particulate matter10 (PM10)	mg/m³	< 0.12	**0.011-0.120	0.019-0.079	0.023-0.103	0.023-0.047
	Location 2: Surasak School						
	NOx	ppm	≤ 0.17	**0.004-0.065	0.0047-0.0171	0.004-0.017	0.0066-0.0091
		mg/m³	≤ 0.12	** 0.0003-0.0052	0.0018-0.0065	0.007-0.028	0.0037-0.0155



GRI Standard	Performance	Unit	Standard	2021	2022	2023	2024
	Volatile organic compounds (VOC)	Kilogra ms	-	NA	NA	NA	NA
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	** 0.021-0.251	0.027-0.050	0.024-0.150	0.044-0.094
	Particulate matter10 (PM10)	mg/m³	< 0.12	**0.010-0.093	0.011-0.035	0.013-0.074	0.010-0.047
	Location 3: Weather Station						
	NOx	ppm	≤ 0.17	**0.011-0.018	0.0016-0.0230	0.014-0.042	0.0070-0.0220
	SOx	mg/m³	≤ 0.12	**0.002-0.013	0.0012-0.0065	0.001-0.009	0.0026-0.0039
	Volatile organic compounds (VOC)	Kilogra ms	-	NA	NA	NA	NA
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.020-0.087	0.027-0.050	0.035-0.148	0.023-0.065
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.018-0.042	0.018-0.070	0.016-0.026	0.011-0.040
	Location 4: Klong Gram Temple						
	NOx	ppm	≤ 0.17	** 0.002-0.015	0.0038-0.0148	0.010-0.032	0.0101-0.0129
	SOx	mg/m³	≤ 0.12	** 0.005-0.023	0.0016-0.0020	0.015-0.031	0.0068-0.0099
	Volatile organic compounds (VOC)	Kilogra ms	-	NA	NA	NA	NA
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	** 0.024-0.082	0.031-0.089	0.029-0.049	0.041-0.129
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.010-0.044	0.019-0.045	0.021-0.03	0.012-0.052
	Location 5: Ban Tai Sun						
	NOx	ppm	≤ 0.17	** 0.009-0.033	0.0082-0.0188	0.021-0.042	0.0061-0.0104
	SOx	mg/m³	≤ 0.12	**0.0047-0.012	0.0016-0.0024	0.001-0.002	0.0029-0.0046
	Volatile organic compounds (VOC)	Kilogra ms	-	NA	NA	NA	NA
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.019-0.052	0.034-0.073	0.016-0.023	0.030-0.075
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.013-0.044	0.012-0.037	0.010-0.018	0.019-0.048
	Location 6: Khao Kan Song Temple	e					
	NOx	ppm	≤ 0.17	** 0.003-0.023	0.0025-0.0097	0.007-0.055	0.0084-0.0170
	SOx	mg/m³	≤ 0.12	** 0.007-0.021	0.0018-0.0027	0.028-0.049	0.0054-0.0128
	Volatile organic compounds (VOC)	Kilogra ms	-	NA	NA	NA	NA
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	** 0.023-0.097	0.032-0.088	0.027-0.105	0.033-0.084
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	** 0.017-0.050	0.019-0.033	0.019-0.05	0.026-0.055
	Location 7: Ta Kien Ku Temple						
	NOx	ppm	≤ 0.17	** 0.002-0.010	0.0030-0.0098	0.004-0.012	0.0016-0.0178
	SOx	mg/m³	≤ 0.12	** 0.0003-0.006	0.0016-0.0027	0.013-0.022	0.0077-0.0084
	Volatile organic compounds (VOC)	Kilogra ms	-	NA	NA	NA	NA
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	** 0.018-0.062	0.019-0.068	0.019-0.046	0.035-0.125
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	** 0.010-0.043	0.009-0.033	0.011-0.023	0.011-0.045
	Location 8: Ban Som						
	NOx	ppm	≤ 0.17	**0.002-0.020	0.0019-0.0095	0.004-0.007	0.0052-0.0113
	SOx	mg/m³	≤ 0.12	**0.0004-0.007	0.0019-0.0026	0.009-0.019	0.0037-0.0042
	Total Suspended Particulate (TSP) Total Suspended Particulate	mg/m³ mg/m³	≤ 0.33 < 0.12	** 0.014-0.102 ** 0.005-0.038	0.025-0.051 0.012-0.039	0.017-0.027 0.033-0.085	0.0310-0.0690 0.018-0.045
	matter10 (PM10) WHA ESIE 2	9/111	V. 12	0.000 0.000	0.012 0.000	0.000 0.000	3.3 13 0.0 10
057 500	Location 1: Ban Map Lam Bid Scho	ool					
SET ESG	NOx	ppm	≤ 0.17	** <0.001-0.015	0.0063-0.0090	0.008-0.020	0.0017-0.0135
RATING	SOx	mg/m³	≤ 0.30	** 0.003-0.008	0.0063-0.0076	0.0055-0.0126	0.0016-0.0050
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	** 0.024-0.039	0.023-0.048	0.029-0.063	0.016-0.064
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.015-0.023	0.012-0.024	0.010-0.035	0.011-0.021



GRI Standard	Performance	Unit	Standard	2021	2022	2023	2024				
	Location 2: Industrial estate area										
	NOx	ppm	≤ 0.17	**0.004-0.010	0.0089-0.0122	0.003-0.008	0.0068-0.0142				
	SOx	mg/m³	≤ 0.30	**0.002-0.003	0.0066-0.0079	0.0010-0.0016	0.0032-0.0095				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.017-0.030	0.026-0.050	0.022-0.036	0.024-0.046				
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.010-0.018	0.014-0.032	0.008-0.028	0.016-0.031				
	Location 3: Ban Map Lam Bid Moo	. 7					.1				
	NOx	ppm	≤ 0.17	**0.003-0.010	0.0087-0.0108	0.005-0.014	0.0021-0.0192				
	SOx	mg/m³	≤ 0.30	**0.008-0.009	0.0068-0.0076	0.0016-0.0050	0.0019-0.0055				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.025-0.039	0.018-0.041	0.021-0.080	0.024-0.045				
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.014-0.024	0.008-0.024	0.015-0.032	0.012-0.024				
	Location 4: Khao Kan Song Moo. 3										
	NOx	ppm	≤ 0.17	** 0.002-0.009	0.0087-0.0109	0.007-0.013	0.0011-0.0095				
	SOx	mg/m³	≤ 0.30	** 0.005-0.011	0.0063-0.0081	0.0039-0.0181	0.0035-0.0060				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	** 0.033-0.093	0.028-0.045	0.023-0.056	0.026-0.050				
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	** 0.029-0.048	0.009-0.020	0.013-0.032	0.008-0.027				
	Location 5: Chong Lom Temple										
	NOx	ppm	≤ 0.17	**0.003-0.010	0.0078-0.0108	0.002-0.008	0.0012-0.0094				
	SOx	mg/m³	≤ 0.30	**0.008-0.012	0.0090-0.0113	0.0013-0.0026	0.0058-0.0072				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.018-0.047	0.021-0.071	0.019-0.081	0.022-0.083				
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.008-0.013	0.008-0.027	0.013-0.045	0.012-0.046				
	Location 6: Ban Map Kla Moo. 4		L								
	NOx	ppm	≤ 0.17	**0.007-0.009	0.0090-0.0113	0.008-0.024	0.0017-0.0040				
	SOx	mg/m³	≤ 0.30	**0.006-0.015	0.0066-0.0076	0.0013-0.0045	0.0016-0.0050				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.031-0.077	0.036-0.220	0.057-0.139	0.029-0.073				
-	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.014-0.029	0.012-0.102	0.034-0.102	0.013-0.027				
	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				
	SOx	mg/m³	≤ 0.30	-	0.0017-0.0033	0.0254-0.1492	0.0022-0.0035				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	***0.210-0.790	0.041-0.092	0.110-0.280	0.024-0.040				
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	***0.071-0.175	0.019-0.042	0.035-0.116	0.015-0.027				
	Location 2: Ta Jam Sub-District Ho	spital									
	NOx	ppm	≤ 0.17	-	0.0061-0.0206	<0.001-0.017	0.0015-0.0103				
	SOx	mg/m³	≤ 0.30	•	0.0017-0.0032	0.0072-0.0089	0.0067-0.0071				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	*** 0.039-0.061	0.023-0.061	0.046-0.074	0.040-0.085				
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	***0.021-0.046	0.013-0.041	0.026-0.051	0.016-0.035				
	Location 3: Huay Mara Sub-District	Hospital									
	NOx	ppm	≤ 0.17	-	0.0088-0.0184	<0.001-0.008	0.0028-0.0157				
	SOx	mg/m³	≤ 0.30	-	0.0017-0.0032	0.0081-0.0098	0.0043-0.0050				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	*** 0.043-0.129	0.032-0.090	0.032-0.073	0.029-0.041				
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	***0.021-0.052	0.022-0.080	0.015-0.028	0.017-0.032				
	Location 4: Ban Meun Jit Sub-Distr	ict Hospit	al								
	NOx	ppm	≤ 0.17	-	0.0083-0.0216	<0.001-0.006	0.0001-0.0041				
	SOx	mg/m³	≤ 0.30	-	0.0016-0.0033	0.0079-0.0097	0.0096-0.0101				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	*** 0.043-0.056	0.039-0.071	0.019-0.057	0.028-0.048				
SET ESG RATING	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	***0.020-0.030	0.020-0.045	0.013-0.039	0.011-0.024				
KAIIWI	matter10 (PM10) Location 5: Raweng School										
RATING	Location 5: Raweng School										
KATING	NOx	ppm	≤ 0.17	-	0.0073-0.0221	<0.001-0.008	0.0013-0.0099				



GRI Standard	Performance	Unit	Standard	2021	2022	2023	2024
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	*** 0.037-0.093	0.026-0.060	0.029-0.047	0.030-0.058
	PM10	mg/m³	< 0.12	*** 0.020-0.041	0.011-0.028	0.018-0.039	0.013-0.029
	Location 6: Chaloemraj Temple						•
	NOx	ppm	≤ 0.17	-	0.0065-0.0194	<0.001-0.005	0.0002-0.0157
	SOx	mg/m³	≤ 0.30	-	0.0017-0.0035	0.0087-0.0118	0.0017-0.0023
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	*** 0.028-0.050	0.031-0.059	0.030-0.063	0.022-0.069
	PM10	mg/m³	< 0.12	***0.013-0.024	0.020-0.048	0.021-0.044	0.017-0.035
	WHA ESIE 4						
	Location 1: Ban Nikom Sans Ton E	ng-main r					_
	NOx	ppm	≤ 0.17	** 0.003-0.009	0.0012-0.0109	0.002-0.009	0.0066-0.0150
	SOx	mg/m³	≤ 0.30	**0.0113-0.0162	0.0008-0.0052	0.0034-0.0064	0.0070-0.0090
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.022-0.036	0.023-0.055	0.014-0.035	0.031-0.047
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.028-0.042	0.010-0.031	0.031-0.063	0.017-0.028
	Location 2: Ban Nong Mapring	•					
	NOx	ppm	≤ 0.17	** 0.005-0.010	0.0010-0.0093	0.003-0.026	0.0044-0.0163
	SOx	mg/m³	≤ 0.30	**0.0034-0.0063	0.0015-0.0050	0.0027-0.0037	0.0025-0.0048
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.020-0.029	0.025-0.047	0.019-0.040	0.033-0.049
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.028-0.038	0.012-0.032	0.032-0.074	0.016-0.027
	Location 3: Mae Nam Ku Temple						
	NOx	ppm	≤ 0.17	**0.005-0.016	0.0030-0.0158	0.002-0.012	0.0041-0.0169
	SOx	mg/m³	≤ 0.30	**0.0031-0.0042	0.0017-0.0062	0.0043-0.0052	0.0086-0.0133
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.020-0.032	0.019-0.038	0.018-0.047	0.029-0.053
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.028-0.040	0.008-0.028	0.036-0.096	0.014-0.033
	Location 4: Ban Mae Nam Ku						
	NOx	ppm	≤ 0.17	**0.008-0.016	0.0027-0.0125	0.012-0.028	0.0114-0.0177
	SOx	mg/m³	≤ 0.30	**0.0068-0.0168	0.0012-0.0077	0.0048-0.0085	0.0114-0.0152
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.025-0.037	0.021-0.033	0.028-0.057	0.039-0.057
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.043-0.077	0.009-0.011	0.059-0.174	0.020-0.035
	WHA CIE1						
	Location 1: Resident and commerc	ial area w					
	NOx	ppm	≤ 0.17	**<0.001-0.028	0.0045-0.0129	0.010-0.011	0.001-0.021
	SOx	mg/m³	≤ 0.30	**0.0026-0.0079	0.0019-0.0066	0.0128-0.0130	0.0070-0.0076
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	** 0.183-0.257	0.043-0.064	0.083-0.094	0.069-0.110
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	-	-	-	-
	Location 2: Bo Win School						
	NOx	ppm	≤ 0.17	** <0.001-0.033	0.0015-0.0091	0.005-0.007	<0.001-0.006
	SOx	mg/m³	≤ 0.30	**0.0055-0.0086	0.0011-0.0075	0.0104-0.0156	0.0059-0.0069
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.132-0.161	0.021-0.026	0.071-0.128	0.039-0.057
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	-	-		-
	Location 3: Pan Saded Nok Temple	1	1				
	NOx	ppm	≤ 0.17	**0.0060-0.0580	0.0041-0.0111	0.009-0.013	0.003-0.018
	SOx	mg/m³	≤ 0.30	**0.0037-0.0081	0.0010-0.0055	0.0327-0.0369	0.0320-0.0385
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.157-0.167	0.026-0.032	0.066-0.082	0.039-0.065
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	-	-	-	-
	WHA CIE2						
	Location 1: Hoobbon Sub-District			I			1
SET ESG	NOx	ppm	≤ 0.17	** <0.001-0.032	0.0041-0.0142	0.007-0.009	0.0065-0.0159
RATING	SOx	mg/m³	≤ 0.30	**0.0026-0.0037	0.0008-0.0058	0.0041-0.0056	0.0074-0.0096
IVATINO	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.044-0.064	0.038-0.068	0.066-0.084	0.033-0.057



GRI Standard	Performance	Unit	Standard	2021	2022	2023	2024				
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.031-0.057	0.018-0.041	0.038-0.046	0.016-0.033				
	Location 2: Khao Hin Lad Temple	,		•							
	NOx	ppm	≤ 0.17	**<0.001-0.007	0.0026-0.0100	0.004-0.008	0.0126-0.021				
	SOx	mg/m³	≤ 0.30	**0.0037-0.0217	0.0010-0.0076	0.0042-0.0059	0.0074-0.009				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	**0.041-0.082	0.029-0.057	0.036-0.085	0.027-0.043				
	Total Suspended Particulate					0.000 0.000	0.014-0.025				
	matter10 (PM10)	mg/m³	< 0.12	**0.030-0.057	0.016-0.042	0.028-0.039	0.011 0.020				
	Location 3: Khao Kan Song Moo.3 Community										
	NOx	ppm	≤ 0.17	** <0.001-0.008	0.0016-0.0151	0.008-0.011	0.0080-0.028				
	SOx	mg/m³	≤ 0.30	** 0.0003-0.0058	0.0010-0.0050	0.0025-0.0031	0.0032-0.003				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0. 33	** 0.080-0.135	0.031-0.066	0.048-0.068	0.025-0.050				
	Total Suspended Particulate						0.012-0.026				
	matter10 (PM10)	mg/m³	< 0.12	** 0.045-0.069	0.015-0.044	0.026-0.033					
	Location 4: Siri Anusorn Communi	itv	l	L		***************************************					
	NOx	ppm	≤ 0.17	** <0.001-0.035	0.0036-0.0153	0.011-0.015	0.0067-0.025				
	SOx	mg/m³	≤ 0.30	**0.0173-0.0212	0.0010-0.0093	0.0018-0.0036	0.0047-0.006				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0.33	** 0.048-0.096	0.034-0.085	0.064-0.101	0.027-0.13				
	Total Suspended Particulate	_				0.007-0.101	0.027-0.13				
	matter10 (PM10)	mg/m³	< 0.12	** 0.028-0.048	0.019-0.041	0.037-0.046					
	WHA EIE										
	Location 1: WHA EIE office	1	Ī	T			•				
	NOx	ppm	≤ 0.17	<0.001-0.018	0.0015-0.0087	<0.001-0.042	0.0031-0.031				
	SOx	mg/m³	≤ 0.30	0.0004-0.0014	0.0050-0.0060	0.0063-0.0085	0.0039-0.006				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0.33	0.016-0.029	0.016-0.049	0.045-0.081	0.031-0.102				
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	0.020-0.047	0.035-0.086	0.093-0.128	0.018-0.050				
	Location 2: Nong Fab Temple	l					L				
	NOx	ppm	≤ 0.17	** <0.001-0.033	0.0012-0.0088	<0.001-0.006	0.0045-0.033				
	SOx	mg/m³	≤ 0.30	**0.0046-0.0059	0.0042-0.0052	0.0059-0.0091	0.0047-0.005				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0.33	** 0.023-0.042	0.030-0.045	0.065-0.092	0.025-0.085				
	Total Suspended Particulate	mg/m³	< 0.12	** 0.038-0.065	0.052-0.081	0.106-0.138	0.012-0.035				
	matter10 (PM10) Location 3: Map Chalud Temple	1119/111	. 0.12	0.000 0.000	0.002 0.001	0.100 0.100	0.012 0.000				
		l	≤ 0.17	**<0.001-0.017	0.0040.0.0447	<0.001-0.015	1 0 0000 0 040				
	NOx	ppm			0.0018-0.0117		0.0026-0.018				
	SOx	mg/m³	≤ 0.30	**0.0014-0.0026	0.0047-0.0052	0.0060-0.0062	0.0049-0.005				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0.33	**0.02-0.072	0.014-0.028	0.044-0.067	0.032-0.096				
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.035-0.101	0.057-0.090	0.094-0.146	0.021-0.059				
	WHA RIL										
	Location 1: WHA RIL office	nnm	< 0.17	**<0.001.0.041	0.0060.0.0172	0.002-0.019	0.0021.0.000				
	NOx SOx	ppm mg/m³	≤ 0.17 ≤ 0.30	**<0.001-0.041 ** 0.002-0.006	0.0060-0.0173	0.002-0.019	0.0021-0.009				
		mg/m³			0.0009-0.0032		0.0032-0.003				
	Total Suspended Particulate (TSP)	mg/m³	≤ 0.33	** 0.013-0.039	0.024-0.052	0.010-0.030	0.039-0.054				
	PM10	mg/m³	< 0.12	** 0.023-0.061	0.040-0.078	0.030-0.066	0.021-0.032				
	Location 2: Ban Sam Yak Commun		~ 0 47	** <0.004.0.000	0.0000.0000	0.004.0.044	T 0 0004 0 000				
	NOx	ppm	≤ 0.17	** <0.001-0.026	0.0009-0.0032	0.004-0.011	0.0004-0.009				
	SOx	mg/m³	≤ 0.30	**<0.001-0.009	0.0011-0.0034	0.004-0.011	0.0026-0.004				
ļ	Total Suspended Particulate (TSP)	mg/m³	≤ 0.33	**0.018-0.048	0.028-0.071	0.014-0.035	0.030-0.041				
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.030-0.066	0.034-0.061	0.025-0.057	0.023-0.033				
	Location 3: Nong La Lok Commun	ity		·							
	NOx	ppm	≤ 0.17	**<0.001-0.008	0.0024-0.0153	0.001-0.029	0.0006-0.012				
	SOx	mg/m³	≤ 0.30	**0.003-0.008	0.0011-0.0031	0.004-0.010	0.0073-0.008				
T ESG	Total Suspended Particulate (TSP)	mg/m³	≤ 0.33	**0.015-0.031	0.018-0.052	0.020-0.034	0.0073-0.000				
ATING	Total Suspended Particulate	mg/m³	< 0.12	**0.031-0.054	0.018-0.032	0.020-0.034	0.027-0.040				
	matter10 (PM10)	ŭ	70.12	0.001-0.004	0.020-0.071	0.070-0.003	0.020-0.032				
	Location 4: Ban Klong Nam Yen Co	ommunity									



GRI Standard	Performance	Unit	Standard	2021	2022	2023	2024
	NOx	ppm	≤ 0.17	**<0.001-0.032	0.0061-0.0145	0.001-0.009	0.0020-0.0070
	SOx	mg/m³	≤ 0.30	**0.001-0.008	0.0009-0.0032	0.003-0.014	0.0026-0.0046
	Total Suspended Particulate (TSP)	mg/m³	≤ 0.33	**0.014-0.088	0.022-0.047	0.014-0.035	0.033-0.052
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.031-0.125	0.033-0.066	0.032-0.056	0.020-0.027
	WHA SIL						
	Location 1: WHA SIL office						
	NOx	ppm	≤ 0.17	**<0.001-0.020	0.0075-0.0132	0.003-0.040	0.0024-0.0624
	SOx	mg/m³	≤ 0.30	**0.002-0.003	0.0016-0.0045	<0.001-0.008	0.0010-0.0012
	Total Suspended Particulate (TSP)	mg/m³	≤ 0.33	**0.016-0.021	0.030-0.147	0.040-0.063	0.052-0.099
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.030-0.038	0.019-0.054	0.083-0.111	0.030-0.061
	Location 2: Nong Pla Mo School	•					
	NOx	ppm	≤ 0.17	** 0.002-0.018	0.0031-0.0056	0.002-0.029	0.0016-0.0200
	SOx	mg/m³	≤ 0.30	** 0.002-0.005	0.0016-0.0035	<0.001-0.003	0.0008-0.0010
	Total Suspended Particulate (TSP)	mg/m³	≤ 0.33	** 0.026-0.053	0.030-0.051	0.049-0.082	0.045-0.119*
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	** 0.058-0.141	0.014-0.035	0.101-0.167	0.025-0.070*
	Location 3: Bua Loi Klang School						
	NOx	ppm	≤ 0.17	** 0.003-0.017	0.0038-0.0070	<0.001-0.032	0.0012-0.0134
	SOx	mg/m³	≤ 0.30	**0.001-0.005	0.0016-0.0034	<0.001-0.002	0.0002-0.0011
	Total Suspended Particulate (TSP)	mg/m³	≤ 0.33	**0.014-0.023	0.031-0.055	0.024-0.053	0.046-0.079
	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	**0.043-0.063	0.019-0.029	0.052-0.096	0.026-0.045
	Location 4: Ban Mai Tung Din Kho	r School					
	NOx	ppm	≤ 0.17	** 0.001-0.017	0.0050-0.0104	0.002-0.029	0.0028-0.0288
SET ESG	SOx	mg/m³	≤ 0.30	** 0.002-0.005	0.0016-0.0038	0.001-0.009	0.0005-0.0006
RATING	Total Suspended Particulate (TSP)	mg/m³	≤ 0.33	** 0.017-0.026	0.030-0.068	0.031-0.056	0.053-0.102
-	Total Suspended Particulate matter10 (PM10)	mg/m³	< 0.12	** 0.034-0.060	0.016-0.031	0.067-0.101	0.019-0.062

Note: **Data from WHAID, ***Data from WHAUP

Biodiversity

GRI Standard	Performance	Unit	2021	2022	2023	2024			
304-1	Number of industrial estates located near protected areas		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	Operation	3	4	4	4			
	Number of industrial estates required biodiversity management plan	·	3	4	4	4			
	Number of industrial estates implemented biodiversity management plan		3	4	4	4			
S&P	Biodiversity Exposure & Assessment								
CSA	Total number of sites and the total area used for operational	Number	11	11	11	11			
	activities	Area (Hectares)	7,200.3056	7,200.3056	7,200.3056	7,200.3056			
	Total number of sites and total area for operational activities that	Number	11	11	11	11			
	have conducted biodiversity impact assessments in the past 5 years	Area (Hectares)	7,200.3056	7,200.3056	7,200.3056	7,200.3056			
	Total number of sites and total area of sites assessed in past 5	Number	2	2	2	2			
	years are in close proximity to critical biodiversity	Area (Hectares)	1,532.39	1,532.39	1,532.39	1,532.39			
	Total number of sites, in close proximity to critical biodiversity,	Number	2	2	2	2			
	that have biodiversity management plan	Area (Hectares)	1,532.39	1,532.39	1,532.39	1,532.39			

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	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

Environmental Certificate

GRI Standard	Performance	Unit	2021	2022	2023	2024
FTSE	Sites covered by recognized environm	nental managemen	t systems			
RUSSELL	ISO14001 or EMAS	%	100	100	100	100
	ISO 9001	%	100	100	100	100

SOCIAL PERFORMANCE

Employment

GRI	Denfermen	1124	20)21	20	022	20)23	2	024
Standard	Performance	Unit	Male	Female	Male	Female	Male	Female	Male	Female
2-7	Total number of supplement		1	52	1	82	1	98	2	16
	Total number of employee	Person	121	31	142	40	161	37	171	45
	Thailand	Person	121	31	140	37	155	35	163	42
	Vietnam		NA	NA	2	3	6	2	8	3
	Total employee by age group									
	Below 30 years old	Person	38	12	34	14	37	13	40	13
	below 30 years old	%	31.40	38.71	23.94	35.00	22.98	35.14	23.39	28.89
	30-50 years old	Person	70	18	93	24	105	23	114	31
	30-30 years old	%	57.85	58.06	65.49	60.00	65.22	62.16	66.67	68.89
	Over 50 years old	Person	13	1	15	2	19	1	17	1
	,	%	10.74	3.23	10.56	5.00	11.80	2.70	9.94	2.22
	Total employee by level									
	All Management position									
	Thailand		22	10	29	9	31	12	37	15
	Vietnam	Person	NA	NA	0	3	2	2	3	3
	Total number of	1 010011	22	10	29	12	33	14	40	18
	managements] 3	32	41		47		,	58
	Top management	T	1	•		•	ı		ı	T
	Thailand		6	1	7	1	7	0	5	0
	Vietnam	Person	NA	NA	0	0	0	0	0	0
	Total top management	. 0.00	6	1	7	1	7	0	5	0
	. •			7		8		7		5
	Middle management	ı			- 40					
	Thailand		9	8	16	6	17	6	24	9
	Vietnam	Person	NA	NA	0	3	1	2	2	3
	Total middle management	. 5.55	9	8	16	9	18	8	26	12
			<u> </u>	17		25		26		38
	Junior management		_	1 4						
	Thailand	Person	7	1	6	2	7	6	8	6



GRI	. Performance U		20)21	20)22	2023		2024		
Standard	Performance	Unit	Male	Female	Male	Female	Male	Female	Male	Female	
	Vietnam		NA	NA	0	0	1	0	1	0	
	Total impier management		7	1	6	2	8	6	9	6	
	Total junior management			8		8	1	14		15	
	Staff									_	
	Thailand		99	21	111	28	120	20	126	27	
	Vietnam	Person	NA	NA	2	0	4	0	5	0	
	Total staff	1 613011	99	21	111	28	124	20	131	27	
			1:	20	1	41	1	44	1	158	
	Total employee by employment										
	Permanent employee by region	T		T			T				
	Thailand	1	121	31	139	34	151	35	161	42	
	Vietnam	Person	NA	NA	2	3	6	2	8	3	
	Total permanent	1 613011	121	31	141	37	157	37	169	45	
	employee		1	52	1	78	1	94	2	214	
	Temporary employee by region										
	Thailand		0	0	1	3	4	0	2	0	
	Vietnam	Person	0	0	0	0	0	0	0	0	
	Total temporary employee	1 013011	0	0	1	3	4	0	2	0	
	. , , , , ,			0		4		4		2	
	Non-guaranteed hours employe	e by region									
	Thailand		0	0	0	0	0	0	0	0	
	Vietnam	Person	0	0	0	0	0	0	0	0	
	Total non-guaranteed hours	Person	0	0	0	0	0	0	0	0	
	employee			0		0		0		0	
	Full-time employee by region		<u> </u>								
	Thailand		121	31	140	37	155	35	163	42	
	Vietnam	1	NA	NA	2	3	6	2	8	3	
	Takal fall time	Person	121	31	142	40	161	37	171	45	
	Total full-time employee		1	52	1	82	1	98	2	216	
2-7	Part-time employee by region										
	Thailand		0	0	0	0	0	0	0	0	
	Vietnam	Person	0	0	0	0	0	0	0	0	
	Total part-time employee	L GISOII	0	0	0	0	0	0	0	0	
	Total part-time employee	Total part-time employee			0		0		0		0



GRI	Berfermen	1124	202	21	20)22	20	23	2	024				
Standard	Performance	Unit	Male	Female	Male	Female	Male	Female	Male	Female				
401-1	New employee hires	_				1		1	1	1 .				
	Total number of new	Person	24	7	29	11	31	7 8	22	11 33				
	employee hires New hire rate	% of total	20.3			.98		.19		33 5.28				
	Open positions filled by internal	employee												
	candidate (internal hires)	%	N/			IA .		72		.72				
	Average Hiring Cost/ FTE New employee hires by region	Baht	N/	4	IN IN	IA	21,	750	21	,750				
	New employee files by region	Person	24	7	27	8	27	7	19	10				
	Thailand	% of total employee	15.79	4.61	14.84	4.40	13.64	3.54	8.80	4.63				
		Person	NA	NA	2	3	4	0	3	1				
	Vietnam	% of total employee	NA	NA	1.10	1.65	2.02	0.00	1.39	0.46				
	New employee hires by nationa													
		Person	NA	NA	NA	NA	28	7	19	10				
	Thai	% of total employee	NA	NA	NA	NA	14.14	3.54	8.80	4.63				
		Person	NA	NA	NA	NA	3	0	3	1				
	Vietnamese	% of total employee	NA	NA	NA	NA	1.52	0.00	1.39	0.46				
		Person	NA	NA	NA	NA	0	0	0	0				
	American	% of total employee	NA	NA	NA	NA	0.00	0.00	0.00	0.00				
		Person	NA	NA	NA	NA	0	0	0	0				
	Canadian	% of total employee	NA	NA	NA	NA	0.00	0.00	0.00	0.00				
	Franch	Person % of total	NA	NA	NA	NA	0	0	0	0				
	French	employee	NA	NA	NA	NA	0.00	0.00	0.00	0.00				
	lananaa	Person	NA	NA	NA	NA	0	0	0	0				
	Japanese	% of total employee	NA	NA	NA	NA	0.00	0.00	0.00	0.00				
	New employee by management level Top Management													
	Top Management	Person	NA	NA	NA	NA	0	0	0	0				
	Thailand	% of total						-	_					
		employee	NA	NA	NA	NA	0.00	0.00	0.00	0.00				
	Viotnam	Person	NA	NA	NA	NA	0	0	0	0				
	Vietnam	% of total employee	NA	NA	NA	NA	0.00	0.00	0.00	0.00				
	Middle Management	T 5	214		N. A.				1					
	Thailand	Person % of total	NA NA	NA NA	NA	NA NA	9	0	4	2				
		employee	NA	NA	NA	NA NA	4.55	0.00	1.85	0.93				
	Vietnam	Person % of total	NA NA	NA	NA	NA NA	1	2	1					
	Lundan Managanan	employee	NA	NA	NA	NA	0.51	1.01	0.46	0.46				
	Junior Management	Person	NA	NA	NA	NA	0	2	1	1				
	Thailand	% of total employee	NA NA	NA NA	NA NA	NA NA	0.00	1.01	0.46	0.46				
		Person	NA	NA	NA	NA	1	0	0	0				
	Vietnam	% of total employee	NA	NA	NA	NA	0.51	0.00	0.00	0.00				
	New employee hires by age								1					
	Below 30 years old	Person % of total	12	5	12	6	12	3	10	2				
	Delow of years old	employee	7.89	3.29	6.59	3.30	6.06	1.52	4.63	0.93				



GRI	Performance Unit 2021 2022		20	23	20	024				
Standard	Performance	Unit	Male	Female	Male	Female	Male	Female	Male	Female
	Thailand	Person	12	5	10	6	11	3	8	2
	Vietnam	Person	NA	NA	2	0	1	0	2	0
		Person	12	2	16	5	19	4	12	9
	30-50 years old	% of total	7.89	1.32	8.79	2.75	9.60	2.02	5.56	4.17
		employee								
	Thailand	Person	12	2	16	2	16	4	11	8
	Vietnam	Damasu	NA	NA 0	0 1	3 0	3 0	0 0	0	0
	Over 50 years old	Person % of total	0	0				-	-	-
	over so yours ora	employee	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00
	Thailand	Person	0	0	1	0	0	0	0	0
	Vietnam	1 613011	NA	NA	0	0	0	0	0	0
	Turnover rate	,	_	1			T	1 -	1	T .
	Total employee turnover	Person	4	1 1	7	4	12	4	11	3
		Damasia				11		6		14
	Dismissal of Employee Voluntary leave	Person Person	0 4	0	7	0 4	0 12	0 4	11	3
	Turnover rate	% of total	3.2	20		.04		08		.48
	Voluntary employee turnover	employee	3.2			.04		08		.48
	Data coverage									
	(as % of all FTEs globally)	%	10	00	1	00	10	00	1	00
	Employee turnover by region									
		Person	4	1	6	4	12	3	10	3
	Thailand	% of total	0.00	0.00		2.20		1.50		
		employee	2.63	0.66	3.30	2.20	6.06	1.52	4.63	1.39
	Nr. 1	Person	NA	NA	1	0	0	1	1	0
	Vietnam	% of total employee	NA	NA	0.55	0.00	0.00	0.51	0.46	0.00
401-1	Employee turnover by age	Chiployee								
401-1	Below 30 years old	Person	3	1	2	2	5	1	3	1
		% of total	1.97	0.66	1.10	1.10	2.53	0.51	1.39	0.46
	The Steer of	employee		0.00				4		4
	Thailand Vietnam	Person	3 0	0	0	0	5 0	0	3	0
	Vietnam	Person	1	0	4	2	6	3	8	2
	30-50 years old	% of total								
	-	employee	0.66	0.00	2.20	1.10	3.03	1.52	3.70	0.93
	Thailand	Person	1	0	3	2	6	2	7	2
	Vietnam		0	0	1	0	0	1	1	0
	Over 50 years old	Person % of total	0	0	1	0	1	0	0	0
	Over 30 years old	employee	0.00	0.00	0.55	0.00	0.51	0.00	0.00	0.00
	Thailand		0	0	1	0	1	0	0	0
	Vietnam	Person	0	0	0	0	0	0	0	0
	Turnover by management level									
	Top Management	,		1			I	ı	T	ı
	Theflered	Person	NA	NA	NA	NA	1	0	1	0
	Thailand	% of total employee	NA	NA	NA	NA	0.51	0.00	0.46	0.00
		Person	NA	NA	NA	NA	0	0	0	0
	Vietnam	% of total		NA			0.00	0.00	0.00	0.00
		employee	NA	INA	NA	NA	0.00	0.00	0.00	0.00
	Middle Management									
	Thailand	Person	NA	NA	NA	NA	4	0	1	1
	inalialiu	% of total employee	NA	NA	NA	NA	2.02	0.00	0.46	0.46
		Person	NA	NA	NA	NA	0	1	0	0
	Vietnam	% of total	NA	NA	NA	NA	0.00	0.51	0.00	0.00
		employee	IVA	INA	IVA	INA	0.00	0.01	0.00	0.00



GRI	2021 2022)22	20	2024					
Standard	Performance	Unit	Male	Female	Male	Female	Male	Female	Male	Female
	Junior/ Low level Management									
	Theilead	Person	NA	NA	NA	NA	0	0	0	0
	Thailand	% of total employee	NA	NA	NA	NA	0.00	0.00	0.00	0.00
		Person	NA	NA	NA	NA	0	0	0	0
	Vietnam	% of total	NA	NA	NA	NA	0.00	0.00	0.00	0.00
401-3	Devented leave	employee	INA	IVA	IVA	INA	0.00	0.00	0.00	0.00
401-3	Parental leave									
	Employees that were entitled to parental leave		-	31	-	36		37	171	45
	Total employees that took parental leave		-	0	-	0		0	1	0
	Total employees that returned to work in the reporting period after parental leave ended	Person	-	0	-	0		0	1	0
	Total employees that returned to work after parental leave ended that were still employed 12 months after their return to work		-	0	-	0		0	1	0
	Total return to work rate	%	-	-	-	-	-	-	100	0
	Total retention rate	%	-	-	-	-	-	-	100	0
404-1	Employee training	ı			1					
	Total number of training hours	Hours		3.00		0.79	4,39	6.50		4 404 50
	provided to employees Average hours of training and	Hours/FTE/	3,144.93	725.86 .47	3,454.50	942.00	4,222.00	1,116.50 .96	6,362.63	1,401.58 5.95
	development	Year	25.99	23.41	24.33	23.55	26.22	30.18	37.21	31.15
	Average days of training and	D-l-t		06		01		12		.50
	development	Baht	1.08	0.98	1.01	0.98	1.09	1.26	1.55	1.30
	Average amount spent on FTE	Baht		IA		2.81		57.90		13.44
	on training and development		NA	NA	5,118.09	9,234.56	10,938.28	11,578.42	6,333.18	2,542.43
	Average hours of training by em Number of executives	Person		7		8		7		5
	Number of training hours provided to executives	Hours).88		1.00		1.00		5.00
	Average hours of training for top management	Hours/FTE/ Year	34	.41	31	.75	20	.57	39	0.00
	Number of middle management	Person	1	7	2	<u>!</u> 5	2	<u>.</u> 6	;	38
	Number of training hours provided to middle management	Hours	485	5.67	1,04	8.50	852	2.50	1,67	70.43
	Average hours of training for middle management	Hours/FTE/ Year	28	.57	41	.94	32	.79	43	3.96
	Number of junior management	Person	1	8		8	1	4	,	15
	Number of training hours provided to junior management	Hours	291	1.46	232	2.00	332	2.00	30	0.00
	Average hours of training for junior management	Hours/FTE/ Year		.46		29		.71		0.00
	Number of staff	Person	12	20	1	41	14	44	1	58
	Number of training hours provided to staffs	Hours	2,85	52.78	2,86	52.00	4,01	0.00	5,59	98.78
	Average hours of training for staff	Hours/FTE/ Year	23	.77	20	.30	27	.85	35	5.44
	Average hours of training by ag	e group	NIA	NIA	NΛ	NΙΛ	26.25	20.27	20.64	10.72
	Below 30 years old 30-50 years old	Hours/FTE/	NA NA	NA NA	NA NA	NA NA	26.35 24.70	28.27 22.90	29.64 39.70	19.73 35.05
	Over 50 years old	Year	NA	NA NA	NA	NA NA	29.11	45.50	38.29	58.50
<u> </u>		ı								



GRI		11. 74	2021 2022		2023		2024			
Standard	Performance	Unit	Male	Female	Male	Female	Male	Female	Male	Female
	Average hours of training by tra									
	In-house training	Hours/FTE/	NA	NA	27.24	33.00	23.85	28.51	34.16	30.35
	Public training	Year	NA	NA	3.22	0.00	2.38	1.66	3.05 0.80	
	Average hours of training by na						,			
	Thai	Hours/FTE/	NA	NA	24.41	25.67	26.50	30.40	38.25	32.25
	Others	Year	NA	NA	24.41	25.67	26.22	30.18	15.94	15.67
	Human Capital Return on Invest	ment			T		T		T	
	Human Capital Return on Investment (Normalized Basis*)	Times	22	2.6	17.2		1	9.7	19	9.1
	Human Capital Return on Investment (Reported Basis)	Times	N	Α	1	NA	١	I A	NA	
404-3	Number of employees receiving	regular perfor	mance and	career devel	opment rev	iews				
	Total number of employees									
	receiving regular	Person	121	31	142	40	157	37	169	45
	performance and career									
	development reviews by gender	%	100	100	100	100	97.52	100	98.83	100.00
	Performance review by employe	e category		l.	l		<u>l</u>			
	Total number of executives who received regular performance	Person	7	7		8		7	5	
	and career development reviews	%	100	0.00	10	0.00	10	0.00	100	0.00
	Total number of middle managements who received	Person	1	7	:	25	2	26	3	38
	regular performance and career development reviews	%	100	0.00	10	0.00	10	0.00	100	0.00
	Total number of junior managements who received	Person	}	3		8		14	1	5
	regular performance and career development reviews	%	100	0.00	10	0.00	10	0.00	100	0.00
	Total number of staff who received regular performance	Person	12	20	1	41	1	44	1:	58
	and career development reviews	%	100	0.00	10	0.00	10	0.00	1	00
	Trend of Employee Engagement	t								
	Employee Engagement	% of actively	6	69 72			70	7	' 0	
	Employee Engagement Target 2024	engaged employee					76			
	Data Coverage	% of total	9	4	1	00	(99	9	9
	Data Coverage Target 2024	employee				1	00			



Labor Practice Indicators

GRI			20)21	20	22	20	23	20	24
Standard	Performance	Unit	Male	Female	Male	Female	Male	Female	Male	Female
405-1	Total number of governance bodies members	Person	2	0	3	0	3	0	3	0
	Diversity of governance bodies by gender	%	100	0	100	0	100	0	100	0
	Diversity of governance bo				1		Т		1	•
	Below 30 years old	Person % governance		0 00		0 00		<u>)</u> 00		00
		body Person		1		2		2		2
	30-50 years old	% governance body	50.00			.67	66	.67		.67
		Person	,	1		1	,	1	,	1
	Over 50 years old	% governance body	50	.00	33	.33	33	.33	33	.33
	Diversity of total workforce					1	1		1	
	Below 30 years old	Person % of total	38 31.40	12 38.71	34 23.94	14 35.00	37 18.69	13 6.57	40 18.52	13 6.02
		employee Person	70	18	93	24	105	23	114	31
	30-50 years old	% of total employee	57.85	58.06	65.49	60.00	53.03	11.62	52.78	14.35
	Over 50 years old	Person % of total	13 10.74	3.23	15 10.56	5.00	19 9.60	1 0.51	17 7.87	0.46
		employee	10.74	3.23	10.50	5.00	9.00	0.51	1.01	0.40
	Diversity of employees by			1 1	7	1 1	7	0		0
	Top management	Person % of	6	·			7	0	5	0
		management employee	3.95	0.66	3.85 16	0.55	3.54	0.00	2.31	0.00
		Person % of	9	8	16	9	18	8	26	12
	Middle management	management employee	5.92	5.26	8.79	4.95	9.09	4.04	12.04	5.56
		Persons	7	1	6	2	8	6	9	6
	Junior management	% of management employee	4.61	0.66	3.30	1.10	4.04	3.03	4.17	2.78
		Person	99	21	113	28	124	23	131	27
	Staff	% of management employee	65.13	13.82	62.09	15.38	62.63	11.62	60.65	12.50
	Diversity of employee-by-e									
	Top management									
		Person	(0	(0	()	()
	Below 30 years old	% of management employee	0.	00	0.	00	0.	00	0.	00
		Person		4	:	5	į.	5		4
	30-50 years old	% of management employee	12	50	12	.20	71.43		80.00	
		Person % of	,	3	;	3	2	2		1
	Over 50 years old	management employee	9.	38	7.	32	28	.57	20.	.00



GRI					23	20	24			
Standard	Performance	Unit	Male	Female	Male	Female	Male	Female	Male	Female
	Total of top management	Person	•	7		8		7	,	5
	Middle management	T			1		1		ı	
		Person	,	1	(0	()	1)
	Below 30 years old	% of management	2	13	0	00	0	00	0	00
		employee	J.	13	0.	00	0.	00	0.	00
		Person	1	5	2	23	2	1	3	5
	30-50 years old	% of management employee	46	.88	56	.10	80	.77	92	.11
		Person		1		2	1	2	;	3
	Over 50 years old	% of management employee	3.	13	4.	88	7.	69	7.	89
	Total of middle management	Person	1	7	2	25	2	3	3	8
	Junior management									
		Person	(0	(0	()	1)
	Below 30 years old	% of management employee	0.	00	0.	00	0.	00	0.	00
		Person		7		7	1	2	1	4
	30-50 years old	% of management employee	21	.88	17	.07	85	.71	93	.33
		Person		1		1	1			1
	Over 50 years old	% of management employee	3.	13	2.	44	7.	7.14		67
	Total of junior management	Person	1	8	1	8	1	3	1	5
	Staff									
		Person	4	.9	4	8	4	47		3
	Below 30 years old	% of total	32	.24	26	.37	23	.74	24	.54
		employee Person	6	52	g	32	۵	2	c	2
	30-50 years old	% of total								
		employee	40	.79		.05	41			.59
		Person	(9	1	1	1	4	1	3
	Over 50 years old	% of total employee	5.	92	6.	04	7.	07	6.	02
	Total of staff	Person	12	20	14	41	14	43	1:	58
	Employees with disabilities	S			•		•		•	
		Person	NA	NA	NA	NA	0	0	0	0
	Total	% of total employee	NA	NA	NA	NA	0.00	0.00	0.00	0.00
	Share of women in total wo			1	1 -	1		1		
	Share of women in total	Person % of total	0	NA	0	NA	0	23	0	45
	workforce	% of total workforce	0	NA	0	NA	0	11.62	0	20.83
	Target 2024	%				1	5			
	Share of women in all	Person	0	NA	0	NA	0	12	0	18
	management positions, including junior, middle and top management	% of total management positions	0	NA	0	NA	0	25.53	0	31.03
	Target 2024	%					0			
		Person	0	NA	0	NA	0	6	0	6



GRI			2021		2022		2023		2024	
Standard	Performance	Unit	Male	Female	Male	Female	Male	Female	Male	Female
	Share of women in junior management positions, i.e. first level of management	% of total junior management positions	0	NA	0	NA	0	42.86	0	40.00
	Target 2024	%		1			5			
	Share of women in top	Person	0	NA	0	NA	0	0	0	0
	management positions, i.e. maximum two levels away from the CEO or comparable positions	% of total top management positions	0	NA	0	NA	0	0.00	0	0.00
	Target 2024	%		_			Α			
		Person	0	NA	0	NA	0	8	0	6
	Share of women in management positions in revenue-generating functions (e.g. sales)	% of all such managers (i.e. excluding support functions such as HR, IT, Legal etc.)	0	NA	0	NA	0	32.00	0	31.58
	Target 2024	%			•	3	5	•	•	•
	Share of women in STEM-	Person	0	NA	0	NA	0	13	0	8
	related positions	% of total STEM positions	0	NA	0	NA	0	46.43	0	23.53
	Target 2024	%				N	/A			
	Breakdown based on Natio	Person	NA	NA	NA	NA	155	35	163	42
	Share in total workforce	% of total	NA NA	NA NA	NA NA	NA NA	78.28	17.68	75.46	19.44
	Share in all management	employee Person	NA	NA	NA	NA	31	12	37	15
	positions, including junior, middle and senior management	% of total management workforce	NA	NA	NA	NA	65.96	25.53	63.79	25.86
	Breakdown based on Natio	onality: Others	I.		I.	L	I.	I.	I.	
	Share in total workforce	Person	NA	NA	NA	NA	0	0	0	0
	(American)	% of total workforce	NA	NA	NA	NA	0.00	0.00	0.00	0.00
	Share in all management	Person	NA	NA	NA	NA	0	0	0	0
	positions, including junior, middle and senior management (American)	% of total management workforce	NA	NA	NA	NA	0.00	0.00	0.00	0.00
	Share in total workforce (Canadian)	Person	NA	NA	NA	NA	1	0	0	0
	Share in all management	% of total workforce	NA	NA	NA	NA	0.51	0.00	0.00	0.00
	positions, including junior,	Person	NA	NA	NA	NA	1	0.00	0	0
	middle and senior management (Canadian)	% of total management workforce	NA	NA	NA	NA	2.13	0.00	0.00	0.00
	Share in total workforce	Person	NA	NA	NA	NA	0	0	1	0
	(French)	% of total workforce	NA	NA	NA	NA	0.00	0.00	0.46	0.00
	Share in all management	Person	NA	NA	NA	NA	0	0.00	1	0
	positions, including junior, middle and senior management (French)	% of total management workforce	NA	NA	NA	NA	0.00	0.00	1.72	0.00
	Share in total workforce	Person	NA	NA	NA	NA	5	2	7	3
	(Vietnamese)	% of total workforce	NA	NA	NA	NA	2.53	1.01	3.24	1.39
		Person	NA	NA	NA	NA	1.00	2	2	3



GRI	D (20)21	20	22	2023		2024	
Standard	Performance	Unit	Male	Female	Male	Female	Male	Female	Male	Female
	Share in all management positions, including junior, middle and senior management (Vietnamese)	% of total management workforce	NA	NA	NA	NA	2.13	4.26	3.45	5.17
	Share in total workforce	Person	NA	NA	NA	NA	0	0	0	0
	(Japanese)	% of total workforce	NA	NA	NA	NA	0.00	0.00	0.00	0.00
	Share in all management	Person	NA	NA	NA	NA	0	0	0	0
	positions, including junior, middle and senior management (Japanese)	% of management workforce	NA	NA	NA	NA	0.00	0.00	0.00	0.00
405-2	Ratio of basic salary and re	emuneration of wo	men to men		•	•	•	•	•	
	Average pay for female to male executives			IA .	N	IA	0.	00	0.	00
	Average pay for female to male management	-	N	IA .	N	IA	1.	02	0.	99
	Average pay for female to male non-management		N	IA.	N	IA	1.	36	1.	06
	Equal pay analysis									
	Executive level (base salary only)		261,000	220,000	293,000	228,000	400,000	-	433,400	0
	Executive level (base salary + other cash incentives)		NA	NA	NA	NA	600,000	-	668,000	0
	Management level (base salary only)	A.,	61,000	81,000	90,000	90,500	91,000	84,200	83,100	81,100
	Management level (base salary + other cash incentives)	- Average Baht/Person	NA	NA	NA	NA	114,844	116,973	117,300	116,400
	Non-Management level (base salary only)		22,400	29,000	19,000	27,600	19,000	32,000	23,000	32,500
	Non-Management level (base salary + other cash incentives)		NA	NA	NA	NA	33,000	45,000	44,200	46,800

Collective Bargaining Agreements

GRI Standard	Performance	Unit	2021	2022	2023	2024
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	2021	2022	2023	2024				
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	Sites	11	11	11	14				
	Operation	% of Sites	100	100	100	100				



B. % of total assessed (of A.)	Sites	11	11	11	14
where risks have been identified	% of Sites	100	100	100	100
C. % of total assessed (of B.)	Sites	11	11	11	14
with mitigation actions taken	% of Sites	100	100	100	100
Human Rights Assessment in	Contractors and Tier-1	1 Suppliers			
A. % of total assessed in	Contractors and Tier-1 Suppliers	-	-	292	246
Contractors and Tier-1 Suppliers	% of Contractors and Tier-1 Suppliers	-	-	100	100
B. % of total assessed (of A.)	Contractors and Tier-1 Suppliers	-	-	0	0
where risks have been identified	% of Contractors and Tier-1 Suppliers	-	-	0	0
C 0/ of total accessed (of D)	Contractors and Tier-1 Suppliers	-	-	0	0
C. % of total assessed (of B.) with mitigation actions taken	% of Contractors and Tier-1 Suppliers	-	-	0	0
Human Rights Assessment in	Joint Ventures (includ	ing stakes above 10%	, and without managem	ent control)	
A. % of total assessed in Contractors and Tier-1	Joint Ventures	NA	NA	NA	NA
Suppliers	% of Joint Ventures	NA	NA	NA	NA
B. % of total assessed (of A.) where risks have been	Joint Ventures	NA	NA	NA	NA
identified	% of Joint Ventures	NA	NA	NA	NA
C. % of total assessed (of B.)	Joint Ventures	NA	NA	NA	NA
with mitigation actions taken	% of Joint Ventures	NA	NA	NA	NA



GRI Standard	Performance	Unit	2021	2022	2023	2024
412-2	Employee training in human ri	ghts policies or proced	dures			
	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	16	38	35	30
	% 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 agreem	ents and contracts tha	at include human right	ts clauses or that under	rwent human rights sc	reening
	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	2021	2022	2023	2024		
413-1	Operations with community engagement							
	Total number of Operation Site	Operation unit	10	11	12	12		
	- Operation involved with local community	Operation unit	10	11	12	12		
	engagement	%	100	100	100	100		
	- Operation involved with social impact	Operation unit	10	11	12	12		
	assessment	%	100	100	100	100		
	- Operation with environmental impact	Operation unit	10	11	12	12		
	assessments and ongoing monitoring	%	100	100	100	100		
	- Operation involved with public disclosure of	Operation unit	10	11	12	12		
	results of environmental and social impact assessments	%	100	100	100	100		
	- Operation involved with local community	Operation unit	10	11	12	12		
	development programs based on local communities' needs	%	100	100	100	100		
	- Operation involved with broad-based local	Operation unit	10	11	12	12		
	community consultation committees and processes that include vulnerable groups	%	100	100	100	100		
	- Operation involved with works councils,	Operation unit	10	11	12	12		
	occupational health and safety committees	%	100	100	100	100		
	Type of Philanthropic Activities							
	Total type of philanthropic activities	% of total costs	100	100	100	100		
	A) Charitable donations	% of total costs	31	26	20	16		
	B) Community investment	% of total costs	28	26	21	25		
	C) Community initiatives	% of total costs	41	48	59	59		
	Philanthropic Contributions							
	Total amount of Cash contributions	Million Baht	14.47	6.89	4.25	2.91		
	Total amount of Time: employee volunteering during paid working hours	Million Baht	2.37	3.93	5.61	7.28		
	Total amount of In-kind giving: product or services donations, projects/partnerships or similar	Million Baht	0.00	33.28	12.83	17.83		
	Total amount of Management overheads	Million Baht	1.11	1.07	2.13	1.71		



Occupational Health and Safety

GRI Standard	Performance	Unit	2021	2022	2023	2024		
403-8	Number of worker who are covered by an occupation	nal health and safety	management sys	tem				
	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		-	-	-	-		
403-9	The number of hours worked							
	Employee	Hours	320,746	444,553	511,938	541,054		
	Contractor	110010	391,993	695,813	885,540	921,218		
	Lost time injury frequency rate (LTIFR)			T	T			
	Employee	Case per 1,000,000 hours worked	1.17	0	0	0		
	Data coverage	% of employee	100	100	100	100		
	Contractor	Case per 1,000,000 hours worked	0	0	0	0		
	Data coverage	% of employee	100	100	100	100		
	Number of high consequences work related injuries							
	Employee	Case per 1,000,000 hours worked	1.17	0	0	0		
	Contractor		0	0	0	0		
	Number of recordable work-related injuries							
	Employee	Cooo	1	0	1	0		
	Contractor	Case	1	1	1	3		
	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			T	T			
	Employee	% of total days scheduled	1	0	0	0		
	Target 2024	% of total days scheduled		C)			
	Data Coverage	% of employee	100	100	100	100		
	Absentee rate							
	Employee	% of total days scheduled	0.99	1.25	1.71	1.70		
	Target 2024	% of total days scheduled		1.0	60			
	Data Coverage	% of employee	100	100	100	100		



GRI Standard	Performance	Unit	2021	2022	2023	2024
403-10	Fatalities as a result of work-related ill health					
	Employee	Doroon	0	0	0	0
	Contractor	Person	0	0	0	0
	Number of recordable work-related ill health					
	Employee	Case	0	0	0	0
Contractor	Contractor	Case	0	0	0	0

OHSMS training

GRI Standard	Performance	Unit	2021	2022	2023	2024
FTSE	Safety training					
RUSSELL	Staff trained on safety	Person	46	72	58	174
	Staff trained (General training which includes safety)	Person	34	38	42	193