

Performance Summary

ECONOMIC PERFORMANCE

GRI Standard	Performance	Unit	2021	2022	2023	2024
201-1	Direct economic value generated and distributed					
	Direct economic value generated					
	Revenue	Million Baht	11,964	15,568	17,015	14,342
	Economic Value distributed					
	Operating Cost	Million Baht	6,306	9,574	10,072	7,184
	Employee wages and benefits		961	871	1,046	1,209
	Annual dividend payment		1,348	2,098	2,499	2,749
	Payment to the government		679	546	581	710
	Social investment		7	44	42	35
	Economic value retained	Million Baht	2,663	2,435	2,774	2,456
205-2	Anti-corruption					
	Communication and training on anti-corruption policy to governance body members					
	WHA Industrial Development	%	100	100	100	100
	WHA Utilities and Power		100	100	100	100
	WHA Logistics		100	100	100	100
	WHA Digital		100	100	100	100
	Total amount of political contributions					
	WHA Industrial Development	Million Baht	0	0	0	0
	WHA Utilities and Power		0	0	0	0
	WHA Logistics		0	0	0	0
	WHA Digital		0	0	0	0
	Communication and training on anti-corruption policy to employees					
	WHA Industrial Development	%	100	100	100	100
	WHA Utilities and Power		100	100	100	100
	WHA Logistics		100	100	100	100
	WHA Digital		100	100	100	100
	Communication on anti-corruption policy to business partners					
	WHA Industrial Development	%	N/A	100	100	100
	WHA Utilities and Power		N/A	100	100	100
	WHA Logistics		N/A	100	100	100
	WHA Digital		N/A	100	100	100
205-3	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
	Confirmed Incidents of Corruption and Bribery					
	Total number of confirmed incidents of corruption	Case	0	0	0	0
	Number of employees who were 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
	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

GRI Standard	Performance	Unit	2021	2022	2023	2024
	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					
	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
	WHA Industrial Development		100	100	100	100
	WHA Utilities & Power		100	100	100	100
	WHA Logistics		100	100	100	100
	WHA Digital		100	100	100	100
	Contractors/ Suppliers/ Service Providers		100	100	100	100
	WHA Industrial Development		100	100	100	100
	WHA Utilities & Power		100	100	100	100
	WHA Logistics		100	100	100	100
	WHA Digital		100	100	100	100
	Subsidiaries	%	100	100	100	100
	WHA Industrial Development		100	100	100	100
	WHA Utilities & Power		100	100	100	100
	WHA Logistics		100	100	100	100
	WHA Digital		100	100	100	100
	Joint Ventures (including stakes above 10%)		100	100	100	100
	WHA Industrial Development		100	100	100	100
	WHA Utilities & Power		100	100	100	100
	WHA Logistics		100	100	100	100
	WHA Digital		100	100	100	100
	Training Provided of codes of conduct					
	Employees	%	100	100	100	100
	WHA Industrial Development		100	100	100	100
	WHA Utilities & Power		100	100	100	100
	WHA Logistics		100	100	100	100
	WHA Digital		100	100	100	100
	Contractors/ Suppliers/ Service Providers		100	100	100	100
	WHA Industrial Development		100	100	100	100
	WHA Utilities & Power		100	100	100	100
	WHA Logistics		100	100	100	100
	WHA Digital		100	100	100	100
	Subsidiaries	%	100	100	100	100
	WHA Industrial Development		100	100	100	100
	WHA Utilities & Power		100	100	100	100
	WHA Logistics		100	100	100	100
	WHA Digital		100	100	100	100
	Joint Ventures (including stakes above 10%)		100	100	100	100
	WHA Industrial Development		100	100	100	100
	WHA Utilities & Power		100	100	100	100
	WHA Logistics		100	100	100	100
	WHA Digital		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 Environmental Assessment					
	New suppliers that were screened using environmental criteria					
	New suppliers that were screened using environmental criteria	Number	2	4	0	6
		%	100	100	0	100
	WHA Industrial Development		1	0	0	3
	WHA Utilities and Power		0	4	0	3
	WHA Logistics		0	0	0	0
	WHA Digital		1	0	0	0
	Negative environmental impacts in the supply chain and actions taken					
	Number of suppliers assessed for environmental impacts		29	21	17	17
308-2	WHA Industrial Development		9	5	4	4
	WHA Utilities and Power		16	14	12	12
	WHA Logistics		1	1	1	1
	WHA Digital		3	1	0	0
	Number of suppliers identified as having significant actual and potential negative environmental impacts.		0	0	0	0
	WHA Industrial Development		0	0	0	0
	WHA Utilities and Power		0	0	0	0
	WHA Logistics		0	0	0	0
	WHA Digital		0	0	0	0
	Supplier Social Assessment					
414-1	New suppliers that were screened using social criteria					
	New suppliers that were screened using social criteria	Number	2	4	0	6
		%	100	100	0	100
	WHA Industrial Development		1	0	0	3
	WHA Utilities and Power		0	4	0	3
	WHA Logistics		0	0	0	0
	WHA Digital		1	0	0	0
	Negative social impacts in the supply chain and actions taken					
	Number of suppliers assessed for social impacts		29	21	17	17
	WHA Industrial Development		9	5	4	4
414-2	WHA Utilities and Power		16	14	12	12
	WHA Logistics		1	1	1	1
	WHA Digital		3	1	0	0
	Number of suppliers identified as having significant actual and potential negative social impacts.		0	0	0	0
	WHA Industrial Development		0	0	0	0
	WHA Utilities and Power		0	0	0	0
	WHA Logistics		0	0	0	0
	WHA Digital		0	0	0	0
	Total tier 1 supplier					
	Absolute number of suppliers	Number	638	594	583	680
S&P CSA	Share of total procurement spent	%	100	100	100	100
	Critical tier 1 suppliers					
	Absolute number of suppliers	Number	29	21	17	17
	Share of total procurement spent	%	81	81	80	80
	Critical non-tier 1 suppliers					
	Absolute number of suppliers	Number	2	4	4	5
	Supply chain risk exposure					
	Tier 1 suppliers assessed (for sustainability risks) in the last 3 years	Number	638	594	583	680
		%	100	100	100	100
	Tier 1 suppliers classified as high-risk	Number	0	0	0	0
		%	0	0	0	0
	Critical non-tier 1 suppliers assessed (for sustainability risks) in the last 3 years	Number	2	6	4	5

GRI Standard	Performance	Unit	2021	2022	2023	2024
	Critical non-tier 1 suppliers classified as high-risk	Number	0	0	0	0
	Supplier Risk Management Measures					
	Critical suppliers assessed annually	%	100	100	100	100
	Suppliers with high sustainability risk					
	Suppliers with high sustainability risk assessed (ongoing sustainability monitoring) annually	%	0	0	0	0
	Percentage of current suppliers with high sustainability risk which have corrective action plans	%	100	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	%	100	100	100	100
	Supplier Screening					
	Total number of Tier-1 suppliers	Number	594	583	680	
	Total number of significant suppliers in Tier-1		62	62	72	
	% of total spend on significant suppliers in Tier-1	%	82.45	85.70	80.23	
	Total number of significant suppliers in non Tier-1	Number	4	4	5	
	Total number of significant suppliers (Tier-1 and non Tier-1)		66	66	77	
	Supplier Assessment					
	Total number of suppliers assessed via desk assessments/on-site assessments	Number	66	66	77	
	% of significant suppliers assessed		100	100	100	
	Target of significant suppliers assessed for FY2024	%	100			
	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 for FY2024	%	100			
	Capacity building programs					
	Total number of suppliers in capacity building programs		66	66	77	
	% of significant suppliers in capacity building programs	%	100	100	100	
	Target of suppliers in capacity building programs for FY2024	Number	100			
	Supply Chain KPIs					
	KPI 1: % of Acknowledgement of Supplier Code of Conduct	Target: 100% Target Year: 2024				
	% of Acknowledgement of Supplier Code of Conduct	%	43.75	100	100	100
	KPI 2: % of New Supplier Screening using Pre-Questionnaire Form	Target: 100% Target Year: 2024				
	% of New Supplier Screening using Pre-Questionnaire Form	%	100	100	100	100
	KPI 3: % of Existing Supplier ESG Performance Evaluation	Target: 100% Target Year: 2024				
	% of Existing Supplier ESG Performance Evaluation	%	100	100	100	100

Customer Relationship Management

GRI Standard	Performance	Unit	2021	2022	2023	2024
S&P CSA	Satisfaction Measurement					
	Satisfied Respondents (as % of % of satisfied respondents out of total number of respondents to survey)	%	90	86	89	86
		Target: 89 Target Year: 2024				
	Data coverage (% of customers/consumers surveyed)	%	99.98	99.98	99.98	99.98

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
	WHA Industrial Development		0	0	0	0
	WHA Utilities and Power		0	0	0	0
	WHA Logistics		0	0	0	0
	WHA Digital		0	0	0	0
	Complaints from regulatory bodies	Incident	0	0	0	0
	WHA Industrial Development		0	0	0	0
	WHA Utilities and Power		0	0	0	0
	WHA Logistics		0	0	0	0
	WHA Digital		0	0	0	0
	Total number of identified leaks, thefts, of losses of customer data	Incident	0	0	0	0
	WHA Industrial Development		0	0	0	0
	WHA Utilities and Power		0	0	0	0
	WHA Logistics		0	0	0	0
	WHA Digital		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
	WHA Industrial Development		0	0	0	0
	WHA Utilities and Power		0	0	0	0
	WHA Logistics		0	0	0	0
	WHA Digital		0	0	0	0
	Total number of clients, customers and employees affected by the breaches	Incident	0	0	0	0
	WHA Industrial Development		0	0	0	0
	WHA Utilities and Power		0	0	0	0
	WHA Logistics		0	0	0	0
	WHA Digital		0	0	0	0

ENVIRONMENT PERFORMANCE

Waste

GRI Standard	Performance	Unit	2021	2022	2023	2024
306-3	Waste composition					
	Total Waste	Tons	8,180.07	7,574.59	8,020.00	5,634.80
	Hazardous waste		8.69	8.78	6.91	2.38
	Non-hazardous waste		8,171.38	7,565.81	8,013.09	5,632.42
	Data coverage	% of Revenue	100	100	100	100
306-4	Hazardous waste diverted from disposal by recovery option					
	Total	Tons	7.02	7.99	4.15	2.38
	- Preparation for reuse		0	0	0	0
	- Recycling		0	0	1.60	1.22
	- On-site storage		7.02	7.99	2.55	1.16
	Data coverage	% of Revenue	100	100	100	100
	Non-hazardous waste diverted from disposal by recovery option					
	Total	Tons	5,638.74	5,823.24	7,694.99	5,125.32
	- Preparation for reuse		0	0	0	0
	- Recycling		4,319.12	3,957.87	6,631.99	4,645.32
	- On-site storage		1,319.62	1,865.37	1,063.00	480.00
	Data coverage	% of Revenue	100	100	100	100
S&P CSA	Total waste recycled / reused	Tons	4,319.12	3,957.87	6,631.99	4,645.32
	Total waste disposed	Tons	2,534.31	1,743.37	320.86	507.10
	Total waste landfilled	Tons	2,532.64	1,418.95	1.71	0
	Total incineration (with energy recovery)		0	323.63	316.39	397.16
	Total incineration (without energy recovery)		1.67	0.79	2.76	0
	Total waste with unknown disposal method		0	0	0	109.94
	Data coverage	% of Revenue	100	100	100	100
	Target 2024 (total waste disposed)	Tons			750	

Raw Material

GRI Standard	Performance	Unit	2021	2022	2023	2024
FTSE RUSSELL	Raw material used*					
	Total Raw Material	Tons	N/A	N/A	N/A	N/A
	- Non-renewable materials used		N/A	N/A	N/A	N/A
	- Renewable materials used		N/A	N/A	N/A	N/A

Remarks: *Raw materials used in business operations that were directly procured by the company such as concrete, steel, wire mesh, and chemicals used for water production.

Energy

GRI Standard	Performance	Unit	2021	2022	2023	2024
302-1	Energy consumption within the organization					
	Energy consumption from non-renewable sources					
	Total non-renewable energy consumption	MWh	41,150.05	41,673.72	44,724.34	49,158.16
	Diesel / Petrol/ Gasoline	MWh	4,883.00	5,649.96	5,957.51	6,848.55
	Grid electricity consumption	MWh	36,267.05	36,023.76	38,766.83	42,309.61

GRI Standard	Performance	Unit	2021	2022	2023	2024
	Total non-renewable energy consumption intensity ratio	MWh/THB mm	3.44	2.68	2.63	3.43
	Target 2024	MWh		43,400		
	Energy consumption from renewable source					
	Total renewable energy consumption	MWh	863.03	1,656.83	1,619.70	1,675.89
	Solar Power	MWh	863.03	1,656.83	1,619.70	1,675.89
	Percentage of electricity from renewable sources (wind, water, solar, biogas) used in buildings in portfolio	%	2.05	3.82	3.49	3.30
	Total energy consumption					
	Total	MWh	42,013.08	43,330.56	46,334.04	50,834.05
	Data coverage for Energy Consumption					
	Data coverage	% of Revenue	100	100	100	100
	Type of energy consumption					
	Electricity	MWh	37,130.08	37,680.60	40,386.53	43,985.49
	Heating		4,883.00	5,649.96	5,957.51	6,848.55
	Cooling		-	-	-	-
	Steam		-	-	-	-
	Energy usage data on properties					
	WHA Industrial Development	MWh	N/A	N/A	9,876.49	10,002.31
	WHA Utilities and Power		N/A	N/A	32,988.05	37,213.34
	WHA Logistics		N/A	N/A	3,419.94	3,584.44
	WHA Digital		N/A	N/A	59.56	33.96
	Type of energy sold					
	Electricity	MWh	52,767.61	72,135.23	112,921.00	157,354.76
	Heating		-	-	-	-
	Cooling		-	-	-	-
	Steam		-	-	-	-
302-2	Energy consumption outside of the organization					
	Total energy consumption	MWh	4,883.00	5,649.96	5,957.51	6,848.55
302-3	Energy intensity					
	Energy intensity ratio	MWh/THB mm	3.51	2.78	2.72	3.54
	Energy intensity ratio	MWh/ton production	N/A	N/A	N/A	N/A

GHG Emission

GRI Standard	Performance	Unit	2021	2022	2023	2024
305-1	Scope 1 emissions by business unit	ton CO ₂ e	1,146	1,322	1,401	1,637
	WHA Industrial Development		639	699	678	865
	WHA Utilities and Power		274	356	415	447
	WHA Logistics		228	255	296	318
	WHA Digital		5	12	12	7
	Data coverage	% of Revenue	100	100	100	100
	Target 2024	ton CO ₂ e		1,057		
	Scope 1 Biogenic CO₂ emissions	ton CO ₂ e	83.45	98.94	100.59	117.69
	WHA Industrial Development		44.21	51.84	50.25	60.42
	WHA Utilities and Power		22.24	26.57	29.56	32.33
	WHA Logistics		17.00	19.47	19.81	24.49
	WHA Digital		N/A	1.06	0.97	0.45
	Data Coverage	% of Revenue	100	100	100	100

GRI Standard	Performance	Unit	2021	2022	2023	2024
305-2	Scope 2 emissions by business unit (Market-based)**	ton CO ₂ e	18,104	15,722	17,209	20,219
	WHA Industrial Development		3,041	2,538	3,224	2,959
	WHA Utilities and Power		13,458	12,083	12,944	16,185
	WHA Logistics		956	918	1,037	1,070
	WHA Digital		649	183	4	5
	Market-based		18,104	15,722	17,209	20,219
	Data coverage	% of Revenue	100	100	100	100
	Target 2024	ton CO ₂ e			15,569	
	Location-based	ton CO ₂ e	18,130	17,925	19,380	21,151
	Data coverage	% of Revenue	100	100	100	100
	Target 2024	ton CO ₂ e			15,592	
305-3	Scope 3 emissions by business unit	ton CO ₂ e	2,452,575	2,546,778	2,431,638	2,854,005
	WHA Industrial Development		225,140	348,959	65,108	673,371
	WHA Utilities and Power		2,166,414	2,086,915	2,162,538	2,153,899
	WHA Logistics		60,859	110,379	203,943	26,676
	WHA Digital		161	525	49	58
	Data coverage	% of Revenue	100	100	100	100
	Target 2024	ton CO ₂ e			3,000,000	
S&P CSA/ FTSE RUSSELL	Total Emission					
	Scope 1 + Scope 2	ton CO ₂ e	19,250	17,044	18,610	21,586
	Scope 1 + Scope 2 + Scope 3		2,473,825	2,563,822	2,450,240	2,875,860
S&P CSA	Scope 3 Category	ton CO ₂ e	2,452,575	2,546,778	2,431,638	2,854,005
	Purchased Goods and Services		18,839	16,899	16,596	39,647
	Capital Goods		112,675	105,621	160,346	58,791
	Fuel-and-energy-related-activities (not included in Scope 1 or 2)		3,866	3,784	4,091	4,852
	Upstream transportation and distribution		3,027	2,053	2,311	136
	Waste generated in operations		14,853	6,337	3,437	2,574
	Business travel		N/A	N/A	N/A	N/A
	Employee commuting		1,279	1,375	1,503	1,645
	Upstream leased assets		N/A	N/A	N/A	N/A
	Downstream transportation and distribution		N/A	N/A	N/A	N/A
	Processing of sold products		N/A	N/A	N/A	N/A
	Use of sold products		183,294	300,371	117,920	560,100
	End of life treatment of sold products		1,343	1,343	11,343	667
	Downstream leased assets		65,604	61,201	66,296	87,730
	Franchises		N/A	N/A	N/A	N/A
	Investments		2,047,794	2,047,794	2,047,794	2,097,862
	Other upstream		N/A	N/A	N/A	N/A
	Other downstream		N/A	N/A	N/A	N/A
	Data coverage	% of Revenue	100	100	100	100
305-4	GHG emissions intensity ratio					
	Scope 1	Tons CO ₂ e/ THB 1 mm ²	0.10	0.08	0.08	0.11
	Scope 2		1.51	1.01	1.01	1.41
	Scope 1 and Scope 2		1.61	1.09	1.09	1.52
305-5	Scope 1 emissions reduction by business unit					
	WHA Industrial Development	ton CO ₂ e	(109)	60	21	187
	WHA Utilities and Power		(286)	82	(59)	32
	WHA Logistics		(27)	27	(41)	22
	WHA Digital		N/A	7	0	(5)
	Scope 2 emissions reduction by business unit					
	WHA Industrial Development	ton CO ₂ e	1,129	(503)	(686)	(265)
	WHA Utilities and Power		(96)	(1,375)	(861)	3,241
	WHA Logistics		716	(38)	(119)	33
	WHA Digital		(34)	(466)	179	1
	Scope 3 emissions reduction by business unit					

GRI Standard	Performance	Unit	2021	2022	2023	2024
	WHA Industrial Development	ton CO ₂ e	N/A	N/A	(283,851)	608,263
	WHA Utilities and Power		N/A	N/A	75,623	(8,639)
	WHA Logistics		N/A	N/A	93,564	(177,267)
	WHA Digital		N/A	N/A	(476)	9

Remark: *Tons CO₂e per THB 1 mm reported revenue and share of profit / **The company is in the process of registering for Renewable Energy Certificates (RECs), which is expected to be completed by the third quarter of 2025. Once completed, the company will be able to use the certificates to reduce its indirect greenhouse gas emissions (Scope 2) to zero or the minimum level, in accordance with the calculation methodology outlined in the GHG Protocol Scope 2 Guidance (Market-based Method).

Water and Effluents

GRI Standard	Performance	Unit	2021	2022	2023	2024
303-3						
	Water withdrawal by source					
	Total water withdrawal (fresh water + wastewater)	MI	96,217.58	96,785.22	104,245.97	111,406.39
	Total fresh water withdrawal		74,550.97	74,775.54	82,804.05	86,961.42
	- Fresh surface water (from rivers, lakes, natural pond)	MI	8,254.60	9,696.35	8,589.54	8,932.00
	- Fresh groundwater	MI	0	0	0	0
	- Third party water	MI	66,296.37	65,079.19	74,214.51	78,029.42
	- Used quarry water collected in the quarry	MI	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	MI	N/A	9,696.35	8,589.54	8,932.00
	- Sea water	MI	N/A	N/A	N/A	N/A
	Waste water withdrawal	MI	21,666.61	22,009.68	21,441.92	24,444.97
	Total water withdrawal from area with water stress	MI	N/A	96,785.22	104,245.97	111,406.39
	Total fresh water withdrawal from area with water stress	MI	N/A	74,775.54	82,804.05	86,961.42
	- Fresh surface water	MI	N/A	9,696.35	8,589.54	8,932.00
	- Third party water	MI	N/A	65,079.19	74,214.51	78,029.42
	Wastewater withdrawal from area with water stress	MI	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	MI	12,207.64	12,087.68	11,637.57	19,342.38
	- Seawater/Ocean	MI	2,180.59	2,460.56	1,962.10	2,377.28
	- Water products sale	MI	76,334.91	79,994.06	83,913.34	84,928.93
	- Subsurface / well	MI	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)	MI	88,542.54	92,081.74	95,550.91	104,271.91
	Total water discharge from area with water stress	MI	N/A	94,542.29	97,513.00	106,649.18
	- Surface water	MI	N/A	12,087.68	11,637.57	19,342.98
	- Seawater	MI	N/A	2,460.56	1,962.10	2,377.28
	- Water products sale	MI	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 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)	MI	2,180.59	2,460.56	1,962.10	2,377.28
303-4	Water discharge by quality and location					

GRI Standard	Performance	Unit	2021	2022	2023	2024
WHA CIE 1						
pH	-		7.42	7.26	7.42	7.4
Temperature	°C		30.17	30.65	31.42	29.3
Biochemical Oxygen Demand (BOD)	mg/L		8.50	7.00	5.60	12.1
Chemical Oxygen Demand (COD)	mg/L		37.64	38.00	39.50	35.0
Grease and Oil	mg/L		<3.00	<3.00	<3.00	<3.00
Suspended Solid (SS)	mg/L		7.43	8.08	6.17	11.00
Total Dissolved Solid (TDS)	mg/L		1,139.00	1136.00	1073.00	880.00
Total Kjeldahl Nitrogen (TKN)	mg/L		6.88	8.97	9.58	10.60
Mercury (Hg)	mg/L		ND	ND	ND	ND
Selenium (Se)	mg/L		N/A	<0.0005	N/A	N/A
Cadmium (Cd)	mg/L		<0.0001	ND	ND	ND
Lead (Pb)	mg/L		0.007	0.001	0.001	0.001
Arsenic (As)	mg/L		0.003	0.004	0.005	0.002
Chromium (Cr)	mg/L		ND	ND	ND	ND
Barium (Ba)	mg/L		N/A	0.04	N/A	N/A
Nickel (Ni)	mg/L		0.05	0.07	0.08	0.45
Copper (Cu)	mg/L		0.22	0.25	0.21	0.82
Zinc (Zn)	mg/L		0.26	0.23	0.20	0.22
Sulfide as H2S	mg/L		N/A	<0.5	N/A	N/A
Cyanide as HCN	mg/L		N/A	ND	N/A	N/A
Chloride as Cl2	mg/L		N/A	N/A	N/A	N/A
WHA CIE 2						
pH	-		8.32	8.10	8.32	7.8
Temperature	°C		28.58	30.85	30.77	30.12
Biochemical Oxygen Demand (BOD)	mg/L		3.83	5.00	4.75	<2.00
Chemical Oxygen Demand (COD)	mg/L		33.25	23.00	33.75	51.00
Grease and Oil	mg/L		<3.00	<3.00	<3.00	<3.00
Suspended Solid (SS)	mg/L		13.83	10.83	15.00	40.00
Total Dissolved Solid (TDS)	mg/L		1,603.00	1,684.67	1,573.00	1,600.00
Total Kjeldahl Nitrogen (TKN)	mg/L		1.90	2.25	5.63	4.20
Mercury (Hg)	mg/L		ND	ND	ND	ND
Selenium (Se)	mg/L		N/A	ND	N/A	N/A
Cadmium (Cd)	mg/L		ND	ND	N/A	N/A
Lead (Pb)	mg/L		<0.0002	ND	ND	0.001
Arsenic (As)	mg/L		0.008	0.005	N/A	N/A
Chromium (Cr)	mg/L		ND	ND	ND	ND
Barium (Ba)	mg/L		N/A	0.035	N/A	N/A
Nickel (Ni)	mg/L		0.006	0.010	0.013	0.06
Copper (Cu)	mg/L		0.022	0.002	0.003	0.005
Zinc (Zn)	mg/L		0.04	0.06	0.01	0.51
Sulfide as H2S	mg/L		N/A	<0.5	N/A	N/A
Cyanide as HCN	mg/L		N/A	ND	N/A	N/A
Chloride as Cl2	mg/L		N/A	N/A	N/A	N/A
ESIE Phase 1						
pH	-		7.80	7.50	7.78	7.50
Temperature	°C		29.00	29.40	30.20	23.3
Biochemical Oxygen Demand (BOD)	mg/L		4.30	3.00	2.90	2.8
Chemical Oxygen Demand (COD)	mg/L		31.67	43.00	50.80	39.00
Grease and Oil	mg/L		<3.00	<3.00	<3.00	<3.00
Suspended Solid (SS)	mg/L		10.00	5.42	5.00	<5.00
Total Dissolved Solid (TDS)	mg/L		736.00	1,415.00	2,080.00	2,228.00
Total Kjeldahl Nitrogen (TKN)	mg/L		8.90	4.88	2.93	2.50
Mercury (Hg)	mg/L		ND	ND	ND	ND
Selenium (Se)	mg/L		<0.0001	ND	ND	<0.0005
Cadmium (Cd)	mg/L		ND	ND	ND	ND
Lead (Pb)	mg/L		<0.0002	ND	ND	ND
Arsenic (As)	mg/L		0.002	0.005	0.007	0.008
Trivalent Chromium (Cr+3)	mg/L		<0.01	<0.01	<0.01	<0.01
Hexavalent Chromium (Cr+6)	mg/L		0.042	ND	ND	ND

GRI Standard	Performance	Unit	2021	2022	2023	2024
	Barium (Ba)	mg/L	0.06	0.12	0.11	0.13
	Nickel (Ni)	mg/L	0.0005	0.08	0.108	0.14
	Copper (Cu)	mg/L	0.11	0.003	0.003	0.003
	Zinc (Zn)	mg/L	<0.5	0.09	0.07	0.15
	Sulfide as H2S	mg/L	<0.005	<0.50	<0.50	0.50
	Cyanide as HCN	mg/L	N/A	0.012	0.015	0.008
	Chloride as Cl2	mg/L	N/A	N/A	N/A	N/A
ESIE Phase 2B						
	pH	-	8.2	7.64	7.85	7.60
	Temperature	°C	29.29	29.69	30.2	23.6
	Biochemical Oxygen Demand (BOD)	mg/L	4.70	7.00	7.00	3.20
	Chemical Oxygen Demand (COD)	mg/L	41.45	36.00	42.00	25.00
	Grease and Oil	mg/L	<3	3.00	3.00	<3.00
	Suspended Solid (SS)	mg/L	15.45	13.67	18.17	6.00
	Total Dissolved Solid (TDS)	mg/L	593.50	851.00	880.00	1,016.00
	Total Kjeldahl Nitrogen (TKN)	mg/L	1.36	4.01	5.75	4.10
	Mercury (Hg)	mg/L	ND	ND	ND	ND
	Selenium (Se)	mg/L	N/A	ND	ND	ND
	Cadmium (Cd)	mg/L	ND	ND	ND	ND
	Lead (Pb)	mg/L	0.0003	ND	ND	ND
	Arsenic (As)	mg/L	0.0025	0.002	0.02	0.002
	Trivalent Chromium (Cr+3)	mg/L	<0.01	<0.01	<0.01	<0.01
	Hexavalent Chromium (Cr+6)	mg/L	N/A	ND	ND	ND
	Barium (Ba)	mg/L	N/A	0.04	0.04	0.04
	Nickel (Ni)	mg/L	0.035	0.008	0.009	0.03
	Copper (Cu)	mg/L	0.0019	<0.0005	0.0012	0.0005
	Zinc (Zn)	mg/L	0.033	0.024	0.022	0.03
	Sulfide as H2S	mg/L	N/A	<0.50	<0.50	0.50
	Cyanide as HCN	mg/L	N/A	<0.005	<0.005	<0.005
	Chloride as Cl2	mg/L	N/A	N/A	N/A	<0.1
WHA ESIE 1 Phase 1						
	pH	-	8.0	7.55	7.82	7.90
	Temperature	°C	30.70	29.31	30.00	25.80
	Biochemical Oxygen Demand (BOD)	mg/L	6.4	9.00	7.70	2.00
	Chemical Oxygen Demand (COD)	mg/L	51.25	42.00	58.60	64.00
	Grease and Oil	mg/L	<3	3.00	<3.00	<3.00
	Suspended Solid (SS)	mg/L	7.50	11.92	15.50	20.00
	Total Dissolved Solid (TDS)	mg/L	1391	898	1,309.00	1,548.00
	Total Kjeldahl Nitrogen (TKN)	mg/L	2.8	18.85	22.00	16.80
	Mercury (Hg)	mg/L	ND	ND	ND	ND
	Selenium (Se)	mg/L	0.0003	ND	ND	ND
	Cadmium (Cd)	mg/L	<0.0001	ND	ND	ND
	Lead (Pb)	mg/L	0.0003	ND	ND	ND
	Arsenic (As)	mg/L	0.005	0.002	0.004	0.005
	Chromium (Cr)	mg/L	<0.01	<0.01	<0.01	<0.01
	Barium (Ba)	mg/L	<0.01	0.044	0.14	0.06
	Nickel (Ni)	mg/L	0.14	0.08	0.11	0.14
	Copper (Cu)	mg/L	0.09	0.0009	0.001	0.01
	Zinc (Zn)	mg/L	0.002	0.065	0.079	0.04
	Sulfide as H2S	mg/L	0.14	0.53	<0.50	0.70
	Cyanide as HCN	mg/L	<0.0005	ND	<0.0005	<0.005
	Chloride as Cl2	mg/L	<0.005	N/A	N/A	<0.1
WHA ESIE 1 Phase 3						
	pH	-	8.7	7.48	7.85	7.60
	Temperature	°C	N/A	29.62	30.24	23.8
	Biochemical Oxygen Demand (BOD)	mg/L	2.10	7.00	5.80	15.50
	Chemical Oxygen Demand (COD)	mg/L	28.80	39.00	41.20	44.00
	Grease and Oil	mg/L	3.00	3.00	<3.00	<3.00
	Suspended Solid (SS)	mg/L	N/A	7.75	12.00	7.00
	Total Dissolved Solid (TDS)	mg/L	291.00	452.00	447.00	608.00

GRI Standard	Performance	Unit	2021	2022	2023	2024
	Total Kjeldahl Nitrogen (TKN)	mg/L	N/A	6.29	10.57	11.00
	Mercury (Hg)	mg/L	ND	ND	ND	ND
	Selenium (Se)	mg/L	<0.0001	ND	ND	ND
	Cadmium (Cd)	mg/L	ND	ND	ND	ND
	Lead (Pb)	mg/L	0.0002	ND	ND	0.0006
	Arsenic (As)	mg/L	0.002	0.004	0.003	0.003
	Chromium (Cr)	mg/L	ND	<0.01	<0.01	<0.01
	Barium (Ba)	mg/L	0.01	0.04	0.05	0.05
	Nickel (Ni)	mg/L	0.0011	0.002	0.002	0.002
	Copper (Cu)	mg/L	0.0007	0.0007	0.001	0.03
	Zinc (Zn)	mg/L	0.01	0.01	0.02	0.006
	Sulfide as H ₂ S	mg/L	N/A	<0.5	<0.5	<0.5
	Cyanide as HCN	mg/L	N/A	<0.005	<0.005	0.007
	Chloride as Cl ₂	mg/L	N/A	N/A	N/A	<0.1
WHA ESIE 2						
	pH	-	8.20	8.02	8.10	7.4
	Temperature	°C	29.29	29.40	29.80	25.10
	Biochemical Oxygen Demand (BOD)	mg/L	4.70	5.00	6.10	12.00
	Chemical Oxygen Demand (COD)	mg/L	41.45	51.00	51.80	66.00
	Grease and Oil	mg/L	<3.00	<3.00	<3.00	<3.00
	Suspended Solid (SS)	mg/L	15.45	21.50	19.40	30.00
	Total Dissolved Solid (TDS)	mg/L	593.5	483.9	612.4	804.0
	Total Kjeldahl Nitrogen (TKN)	mg/L	1.36	3.02	2.90	3.70
	Mercury (Hg)	mg/L	ND	ND	ND	ND
	Selenium (Se)	mg/L	N/A	N/A	ND	N/A
	Cadmium (Cd)	mg/L	ND	ND	ND	ND
	Lead (Pb)	mg/L	0.0003	ND	ND	0.0008
	Arsenic (As)	mg/L	0.0025	0.002	0.003	0.003
	Chromium (Cr)	mg/L	<0.01	<0.01	<0.01	<0.01
	Barium (Ba)	mg/L	N/A	N/A	0.03	N/A
	Nickel (Ni)	mg/L	0.035	0.064	0.040	0.03
	Copper (Cu)	mg/L	0.0019	0.0039	0.0027	0.02
	Zinc (Zn)	mg/L	0.033	0.129	0.038	0.73
	Sulfide as H ₂ S	mg/L	N/A	N/A	<0.5	N/A
	Cyanide as HCN	mg/L	N/A	N/A	<0.005	N/A
	Chloride as Cl ₂	mg/L	N/A	N/A	N/A	N/A
WHA ESIE 4						
	pH	-	8.00	7.43	7.59	7.90
	Temperature	°C	30.80	31.30	31.30	25.40
	Biochemical Oxygen Demand (BOD)	mg/L	4.80	6.00	6.80	2.00
	Chemical Oxygen Demand (COD)	mg/L	34.10	38.00	49.10	29.00
	Grease and Oil	mg/L	<3.00	3.00	<3.00	<3.00
	Suspended Solid (SS)	mg/L	17.5	19.2	19.8	<5.0
	Total Dissolved Solid (TDS)	mg/L	295	361	504	384
	Total Kjeldahl Nitrogen (TKN)	mg/L	1.70	5.03	8.28	3.00
	Mercury (Hg)	mg/L	ND	ND	ND	ND
	Selenium (Se)	mg/L	0.0006	ND	ND	<0.0005
	Cadmium (Cd)	mg/L	ND	ND	ND	ND
	Lead (Pb)	mg/L	0.0005	ND	ND	ND
	Arsenic (As)	mg/L	0.0010	0.0020	0.004	0.005
	Trivalent Chromium (Cr+3)	mg/L	<0.01	<0.01	<0.01	<0.01
	Hexavalent Chromium (Cr+6)	mg/L	ND	ND	ND	ND
	Barium (Ba)	mg/L	0.05	0.06	0.09	0.13
	Nickel (Ni)	mg/L	0.002	0.004	0.007	0.002
	Copper (Cu)	mg/L	0.0059	0.015	0.004	0.005
	Zinc (Zn)	mg/L	0.03	0.18	0.10	0.04
	Sulfide as H ₂ S	mg/L	<0.5	<0.5	<0.5	0.5
	Cyanide as HCN	mg/L	<0.005	<0.005	<0.005	0.006
	Chloride as Cl ₂	mg/L	N/A	N/A	N/A	<0.1
WHA EIE						

GRI Standard	Performance	Unit	2021	2022	2023	2024
pH	-		8.45	8.32	8.44	8.5
Temperature	°C		34.60	34.80	35.00	31.8
Biochemical Oxygen Demand (BOD)	mg/L		4.00	3.00	3.00	2.0
Chemical Oxygen Demand (COD)	mg/L		42.58	38.00	42.40	2.0
Grease and Oil	mg/L		<3.00	<3.00	<3.00	<3.00
Suspended Solid (SS)	mg/L		11.16	24.25	21.70	6.00
Total Dissolved Solid (TDS)	mg/L		2,417.00	2,070.00	2,010.00	1,720.00
Total Kjeldahl Nitrogen (TKN)	mg/L		2.27	1.77	2.49	2.50
Mercury (Hg)	mg/L		<0.0001	ND	ND	ND
Selenium (Se)	mg/L		0.0008	0.0008	0.0007	0.0009
Cadmium (Cd)	mg/L		0.0020	0.0020	0.0009	ND
Lead (Pb)	mg/L		0.0006	0.0019	0.0006	ND
Arsenic (As)	mg/L		0.006	0.005	0.004	0.001
Chromium (Cr)	mg/L		ND	<0.01	<0.01	<0.01
Barium (Ba)	mg/L		0.17	0.12	0.13	0.12
Nickel (Ni)	mg/L		0.023	0.019	0.021	0.019
Copper (Cu)	mg/L		0.004	0.005	0.005	0.002
Zinc (Zn)	mg/L		0.36	0.23	0.29	0.11
Sulfide as H2S	mg/L		<0.5	<0.5	<0.5	<0.5
Cyanide as HCN	mg/L		0.016	0.009	0.007	0.011
Chloride as Cl2	mg/L		N/A	N/A	N/A	<0.1
WHA RIL						
pH	-		7.00	6.87	6.50	6.10
Temperature	°C		29.50	32.33	31.10	29.40
Biochemical Oxygen Demand (BOD)	mg/L		7.83	8.00	9.60	19.40
Chemical Oxygen Demand (COD)	mg/L		37.16	39.00	47.60	70.00
Grease and Oil	mg/L		<3.00	<3.00	<3.00	<3.00
Suspended Solid (SS)	mg/L		10.83	13.58	17.80	28.00
Total Dissolved Solid (TDS)	mg/L		1,224.00	1,049.00	1,303.00	1,240.00
Total Kjeldahl Nitrogen (TKN)	mg/L		9.10	13.20	7.30	13.8
Mercury (Hg)	mg/L		<0.0001	ND	ND	ND
Selenium (Se)	mg/L		0.0004	ND	ND	<0.0005
Cadmium (Cd)	mg/L		<0.0001	ND	0.0005	ND
Lead (Pb)	mg/L		0.0010	0.0014	0.0018	0.003
Arsenic (As)	mg/L		0.0065	0.004	0.009	0.006
Chromium (Cr)	mg/L		<0.01	<0.01	<0.01	<0.01
Barium (Ba)	mg/L		0.065	0.050	0.140	0.100
Nickel (Ni)	mg/L		0.013	0.033	0.030	0.03
Copper (Cu)	mg/L		0.003	0.004	0.009	0.03
Zinc (Zn)	mg/L		0.15	0.30	0.29	0.42
Sulfide as H2S	mg/L		<0.5	<0.50	<0.50	<0.50
Cyanide as HCN	mg/L		0.0060	<0.005	0.005	0.009
Chloride as Cl2	mg/L		N/A	N/A	N/A	<0.1
WHA SIL						
pH	-		7.50	7.53	7.50	7.60
Temperature	°C		34.6	30.52	31.10	29.80
Biochemical Oxygen Demand (BOD)	mg/L		3.00	3.00	3.00	2.80
Chemical Oxygen Demand (COD)	mg/L		35.00	28.00	38.30	39.00
Grease and Oil	mg/L		3.00	3.00	<3.00	<3.00
Suspended Solid (SS)	mg/L		10.60	9.80	8.30	15.00
Total Dissolved Solid (TDS)	mg/L		1,263.00	1,268.00	1,300.00	1,104
Total Kjeldahl Nitrogen (TKN)	mg/L		1.94	1.48	1.70	4.30
Mercury (Hg)	mg/L		<0.0001	ND	ND	ND
Selenium (Se)	mg/L		N/A	N/A	N/A	N/A
Cadmium (Cd)	mg/L		ND	ND	ND	ND
Lead (Pb)	mg/L		0.0014	0.0010	0.0030	0.001
Arsenic (As)	mg/L		N/A	N/A	N/A	N/A
Chromium (Cr)	mg/L		N/A	N/A	<0.01	<0.01
Barium (Ba)	mg/L		N/A	N/A	N/A	N/A
Nickel (Ni)	mg/L		0.009	0.013	0.018	0.01

GRI Standard	Performance	Unit	2021	2022	2023	2024	
303-5	Copper (Cu)	mg/L	0.004	0.003	0.003	0.003	
	Zinc (Zn)	mg/L	0.060	0.065	0.015	0.06	
	Sulfide as H2S	mg/L	<0.5	<0.5	<0.5	<0.5	
	Cyanide as HCN	mg/L	N/A	N/A	N/A	N/A	
	Chloride as Cl2	mg/L	N/A	N/A	N/A	N/A	
Water Consumption							
303-5	Total water consumption from all areas	Ml	5,494.45	2,242.93	6,732.97	4,757.20	
	Total water consumption from areas with water stress		N/A	2,242.93	6,732.97	4,757.20	
	Change in water storage if water storage has been identified as having a significant water-related impact.		0	0	0	0	
303-5	Total net fresh water consumption*		7,675.04	4,703.48	8,695.06	7,134.48	
	Data coverage	% of Revenue	100	100	100	100	
	Target 2024 Total fresh water consumption	Ml	9,000.00				
	Water Reclamation						
	Water Reclamation Production	Ml	6,924.06	6,950.94	7,257.72	7,635.53	
Target 2029 Water reclamation production							
FTSE RUSSELL							
Water supply data by the Water Utility							
FTSE RUSSELL	Water supply data by the Water Utility	Mls	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	

Remark: NA = Not applicable; Na = Not analyzed; ND = Not detected *included wastewater consumption

Air Emission

GRI Standard	Performance	Unit	Standard	2021	2022	2023	2024
Ambient air quality monitoring by industrial estate operation*							
ESIE							
Location 1: Chompon Chao Phraya Temple							
SET ESG RATING/ FTSE RUSSELL	NOx	ppm	≤ 0.17	** 0.004-0.011	0.0139-0.0344	0.0045-0.0050	0.0100-0.0197
	SOx	mg/m³	≤ 0.3	**0.0185-0.0204	0.0021-0.0024	0.005-0.010	0.0026-0.0049
	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/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						
	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
SET ESG RATING/ FTSE RUSSELL	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/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						
	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
	NOx	Tons	-	N/A	N/A	N/A	N/A
	SOx	Tons	-	N/A	N/A	N/A	N/A
SET ESG RATING/ FTSE RUSSELL	Volatile organic compounds (VOC)	Kilograms	-	N/A	N/A	N/A	N/A
	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	-	-	-	-

GRI Standard	Performance	Unit	Standard	2021	2022	2023	2024
Location 4: Ban Wang Ta Pin							
	NOx	ppm	≤ 0.17	** 0.003-0.007	0.0132-0.0310	0.0051-0.0061	0.0137-0.0189
	SOx	mg/m ³	≤ 0.3	**0.0088-0.0096	0.0016-0.0028	0.004-0.008	0.0057-0.0073
	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	**0.059-0.282	0.018-0.100	0.031-0.099	0.041-0.090
	Particulate matter10 (PM10)	mg/m ³	< 0.12	-	-	-	-
Location 5: Ban Map Lang School							
	NOx	ppm	≤ 0.17	**0.007-0.012	0.0119-0.0248	0.0023-0.0031	0.0080-0.0162
	SOx	mg/m ³	≤ 0.3	**0.0060-0.0067	0.0023-0.0030	0.004-0.012	0.0012-0.0020
	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	**0.065-0.077	0.018-0.044	0.014-0.041	0.027-0.046
	Particulate matter10 (PM10)	mg/m ³	< 0.12	-	-	-	-
Location 6: Sri Sattanaram Monk Center							
	NOx	ppm	≤ 0.17	**0.005-0.011	0.0145-0.0312	0.0014-0.0028	0.0086-0.0199
	SOx	mg/m ³	≤ 0.3	**0.0045-0.0060	0.0022-0.0030	<0.001-0.008	0.0017-0.0026
	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	**0.056-0.078	0.018-0.039	0.014-0.026	0.019-0.039
	Particulate matter10 (PM10)	mg/m ³	< 0.12	-	-	-	-
WHA ESIE 1							
Location 1: Eastern Sugar Company Community School							
	NOx	ppm	≤ 0.17	** 0.001-0.030	0.0086-0.0333	0.014-0.060	0.0045-0.0096
	SOx	mg/m ³	≤ 0.12	**0.0045-0.0060	0.0019-0.0031	0.0081-0.0176	0.0037-0.0044
	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	**0.030-0.231	0.033-0.079	0.044-0.224	0.054-0.137
	Particulate matter10 (PM10)	mg/m ³	< 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
	SOx	mg/m ³	≤ 0.12	** 0.0003-0.0052	0.0018-0.0065	0.007-0.028	0.0037-0.0155
	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	** 0.021-0.251	0.027-0.050	0.024-0.150	0.044-0.094
	Particulate matter10 (PM10)	mg/m ³	< 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/m ³	≤ 0.12	**0.002-0.013	0.0012-0.0065	0.001-0.009	0.0026-0.0039
	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	**0.020-0.087	0.027-0.050	0.035-0.148	0.023-0.065
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 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/m ³	≤ 0.12	** 0.005-0.023	0.0016-0.0020	0.015-0.031	0.0068-0.0099
	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	** 0.024-0.082	0.031-0.089	0.029-0.049	0.041-0.129
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 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

GRI Standard	Performance	Unit	Standard	2021	2022	2023	2024
	SOx	mg/m ³	≤ 0.12	**0.0047-0.012	0.0016-0.0024	0.001-0.002	0.0029-0.0046
	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	**0.019-0.052	0.034-0.073	0.016-0.023	0.030-0.075
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.013-0.044	0.012-0.037	0.010-0.018	0.019-0.048
	Location 6: Khao Kan Song Temple						
	NOx	ppm	≤ 0.17	** 0.003-0.023	0.0025-0.0097	0.007-0.055	0.0084-0.0170
	SOx	mg/m ³	≤ 0.12	** 0.007-0.021	0.0018-0.0027	0.028-0.049	0.0054-0.0128
	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	** 0.023-0.097	0.032-0.088	0.027-0.105	0.033-0.084
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 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/m ³	≤ 0.12	** 0.0003-0.006	0.0016-0.0027	0.013-0.022	0.0077-0.0084
	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	** 0.018-0.062	0.019-0.068	0.019-0.046	0.035-0.125
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 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/m ³	≤ 0.12	** 0.0004-0.007	0.0019-0.0026	0.009-0.019	0.0037-0.0042
	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	** 0.014-0.102	0.025-0.051	0.017-0.027	0.0310-0.0690
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	** 0.005-0.038	0.012-0.039	0.033-0.085	0.018-0.045
WHA ESIE 2							
Location 1: Ban Map Lam Bid School							
NOx	ppm	≤ 0.17	** <0.001-0.015	0.0063-0.0090	0.008-0.020	0.0017-0.0135	
SOx	mg/m ³	≤ 0.30	** 0.003-0.008	0.0063-0.0076	0.0055-0.0126	0.0016-0.0050	
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	** 0.024-0.039	0.023-0.048	0.029-0.063	0.016-0.064	
Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	** 0.015-0.023	0.012-0.024	0.010-0.035	0.011-0.021	
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/m ³	≤ 0.30	** 0.002-0.003	0.0066-0.0079	0.0010-0.0016	0.0032-0.0095	
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	** 0.017-0.030	0.026-0.050	0.022-0.036	0.024-0.046	
Total Suspended Particulate matter10 (PM10)	mg/m ³	< 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							
NOx	ppm	≤ 0.17	** 0.003-0.010	0.0087-0.0108	0.005-0.014	0.0021-0.0192	
SOx	mg/m ³	≤ 0.30	** 0.008-0.009	0.0068-0.0076	0.0016-0.0050	0.0019-0.0055	
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	
Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	** 0.025-0.039	0.018-0.041	0.021-0.080	0.024-0.045	

GRI Standard	Performance	Unit	Standard	2021	2022	2023	2024
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 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/m ³	≤ 0.30	** 0.005-0.011	0.0063-0.0081	0.0039-0.0181	0.0035-0.0060
	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	** 0.033-0.093	0.028-0.045	0.023-0.056	0.026-0.050
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 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/m ³	≤ 0.30	** 0.008-0.012	0.0090-0.0113	0.0013-0.0026	0.0058-0.0072
	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	** 0.018-0.047	0.021-0.071	0.019-0.081	0.022-0.083
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 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						
	NOx	ppm	≤ 0.17	** 0.007-0.009	0.0090-0.0113	0.008-0.024	0.0017-0.0040
	SOx	mg/m ³	≤ 0.30	** 0.006-0.015	0.0066-0.0076	0.0013-0.0045	0.0016-0.0050
	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	** 0.031-0.077	0.036-0.220	0.057-0.139	0.029-0.073
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 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/m ³	≤ 0.30	-	0.0017-0.0033	0.0254-0.1492	0.0022-0.0035
	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	*** 0.210-0.790	0.041-0.092	0.110-0.280	0.024-0.040
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	*** 0.071-0.175	0.019-0.042	0.035-0.116	0.015-0.027
	Location 2: Ta Jam Sub-District Hospital						
	NOx	ppm	≤ 0.17	-	0.0061-0.0206	<0.001-0.017	0.0015-0.0103
	SOx	mg/m ³	≤ 0.30	-	0.0017-0.0032	0.0072-0.0089	0.0067-0.0071
	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	*** 0.039-0.061	0.023-0.061	0.046-0.074	0.040-0.085
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 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/m ³	≤ 0.30	-	0.0017-0.0032	0.0081-0.0098	0.0043-0.0050
	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	*** 0.043-0.129	0.032-0.090	0.032-0.073	0.029-0.041
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	*** 0.021-0.052	0.022-0.080	0.015-0.028	0.017-0.032
	Location 4: Ban Meun Jit Sub-District Hospital						
	NOx	ppm	≤ 0.17	-	0.0083-0.0216	<0.001-0.006	0.0001-0.0041
	SOx	mg/m ³	≤ 0.30	-	0.0016-0.0033	0.0079-0.0097	0.0096-0.0101
	NOx	Tons	-	N/A	N/A	N/A	N/A

GRI Standard	Performance	Unit	Standard	2021	2022	2023	2024
	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	***0.043-0.056	0.039-0.071	0.019-0.057	0.028-0.048
	PM10	mg/m ³	< 0.12	***0.020-0.030	0.020-0.045	0.013-0.039	0.011-0.024
Location 5: Raweng School							
	NOx	ppm	≤ 0.17	-	0.0073-0.0221	<0.001-0.008	0.0013-0.0099
	SOx	mg/m ³	≤ 0.30	-	0.0018-0.0034	0.0092-0.0121	0.0012-0.0014
	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	***0.037-0.093	0.026-0.060	0.029-0.047	0.030-0.058
	PM10	mg/m ³	< 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/m ³	≤ 0.30	-	0.0017-0.0035	0.0087-0.0118	0.0017-0.0023
	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	***0.028-0.050	0.031-0.059	0.030-0.063	0.022-0.069
	PM10	mg/m ³	< 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 Eng-main road							
	NOx	ppm	≤ 0.17	**0.003-0.009	0.0012-0.0109	0.002-0.009	0.0066-0.0150
	SOx	mg/m ³	≤ 0.30	**0.0113-0.0162	0.0008-0.0052	0.0034-0.0064	0.0070-0.0090
	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	**0.022-0.036	0.023-0.055	0.031-0.063	0.031-0.047
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.028-0.042	0.010-0.031	0.014-0.035	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/m ³	≤ 0.30	**0.0034-0.0063	0.0015-0.0050	0.0027-0.0037	0.0025-0.0048
	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	**0.020-0.029	0.025-0.047	0.032-0.074	0.033-0.049
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.028-0.038	0.012-0.032	0.019-0.040	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/m ³	≤ 0.30	**0.0031-0.0042	0.0017-0.0062	0.0043-0.0052	0.0086-0.0133
	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	**0.020-0.032	0.019-0.038	0.036-0.096	0.029-0.053
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.028-0.040	0.008-0.028	0.018-0.047	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/m ³	≤ 0.30	**0.0068-0.0168	0.0012-0.0077	0.0048-0.0085	0.0114-0.0152
	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	**0.025-0.037	0.021-0.033	0.059-0.174	0.039-0.057
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.043-0.077	0.009-0.011	0.028-0.057	0.020-0.035
WHA CIE 1							
Location 1: Resident and commercial area within the industrial estate							
	NOx	ppm	≤ 0.17	**<0.001-0.028	0.0045-0.0129	0.010-0.011	0.001-0.021
	SOx	mg/m ³	≤ 0.30	**0.0026-0.0079	0.0019-0.0066	0.0128-0.0130	0.0070-0.0076

GRI Standard	Performance	Unit	Standard	2021	2022	2023	2024
	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	** 0.183-0.257	0.043-0.064	0.083-0.094	0.069-0.110
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 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/m ³	≤ 0.30	**0.0055-0.0086	0.0011-0.0075	0.0104-0.0156	0.0059-0.0069
	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	**0.132-0.161	0.021-0.026	0.071-0.128	0.039-0.057
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	-	-	-	-
Location 3: Pan Saded Nok Temple							
	NOx	ppm	≤ 0.17	**0.0060-0.0580	0.0041-0.0111	0.009-0.013	0.003-0.018
	SOx	mg/m ³	≤ 0.30	**0.0037-0.0081	0.0010-0.0055	0.0327-0.0369	0.0320-0.0385
	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	**0.157-0.167	0.026-0.032	0.066-0.082	0.039-0.065
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	-	-	-	-
WHA CIE 2							
Location 1: Hoobbon Sub-District Hospital							
	NOx	ppm	≤ 0.17	**<0.001-0.032	0.0041-0.0142	0.007-0.009	0.0065-0.0159
	SOx	mg/m ³	≤ 0.30	**0.0026-0.0037	0.0008-0.0058	0.0041-0.0056	0.0074-0.0096
	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	**0.044-0.064	0.038-0.068	0.066-0.084	0.033-0.057
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 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	0.0126-0.0211
	SOx	mg/m ³	≤ 0.30	**0.0037-0.0217	0.0010-0.0076	0.0042-0.0059	0.0074-0.0094
	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	**0.041-0.082	0.029-0.057	0.036-0.085	0.027-0.043
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.030-0.057	0.016-0.042	0.028-0.039	0.014-0.025
Location 3: Khao Kan Song Moo.3 Community							
	NOx	ppm	≤ 0.17	**<0.001-0.008	0.0016-0.0151	0.008-0.011	0.0080-0.0282
	SOx	mg/m ³	≤ 0.30	**0.0003-0.0058	0.0010-0.0050	0.0025-0.0031	0.0032-0.0037
	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	**0.080-0.135	0.031-0.066	0.048-0.068	0.025-0.050
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.045-0.069	0.015-0.044	0.026-0.033	0.012-0.026
Location 4: Siri Anusorn Community							
	NOx	ppm	≤ 0.17	**<0.001-0.035	0.0036-0.0153	0.011-0.015	0.0067-0.0253
	SOx	mg/m ³	≤ 0.30	**0.0173-0.0212	0.0010-0.0093	0.0018-0.0036	0.0047-0.0066
	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	**0.048-0.096	0.034-0.085	0.064-0.101	0.027-0.131
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	** 0.028-0.048	0.019-0.041	0.037-0.046	0.015-0.038

GRI Standard	Performance	Unit	Standard	2021	2022	2023	2024
WHA EIE							
Location 1: WHA EIE office							
NOx	ppm	≤ 0.17	<0.001-0.018	0.0015-0.0087	<0.001-0.042	0.0031-0.0315	
SOx	mg/m ³	≤ 0.30	0.0004-0.0014	0.0050-0.0060	0.0063-0.0085	0.0039-0.0061	
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	0.016-0.029	0.016-0.049	0.093-0.128	0.031-0.102	
Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	0.020-0.047	0.035-0.086	0.045-0.081	0.018-0.050	
Location 2: Nong Fab Temple							
NOx	ppm	≤ 0.17	**<0.001-0.033	0.0012-0.0088	<0.001-0.006	0.0045-0.0331	
SOx	mg/m ³	≤ 0.30	**0.0046-0.0059	0.0042-0.0052	0.0059-0.0091	0.0047-0.0052	
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	**0.023-0.042	0.030-0.045	0.106-0.138	0.025-0.085	
Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.038-0.065	0.052-0.081	0.065-0.092	0.012-0.035	
Location 3: Map Chalud Temple							
NOx	ppm	≤ 0.17	**<0.001-0.017	0.0018-0.0117	<0.001-0.015	0.0026-0.0181	
SOx	mg/m ³	≤ 0.30	**0.0014-0.0026	0.0047-0.0052	0.0060-0.0062	0.0049-0.0057	
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	**0.02-0.072	0.014-0.028	0.094-0.146	0.032-0.096	
Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.035-0.101	0.057-0.090	0.044-0.067	0.021-0.059	
WHA RIL							
Location 1: WHA RIL office							
NOx	ppm	≤ 0.17	**<0.001-0.041	0.0060-0.0173	0.002-0.019	0.0021-0.0091	
SOx	mg/m ³	≤ 0.30	**0.002-0.006	0.0009-0.0032	0.002-0.021	0.0032-0.0039	
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	**0.013-0.039	0.024-0.052	0.030-0.066	0.039-0.054	
PM10	mg/m ³	< 0.12	**0.023-0.061	0.040-0.078	0.010-0.030	0.021-0.032	
Location 2: Ban Sam Yak Community							
NOx	ppm	≤ 0.17	**<0.001-0.026	0.0009-0.0032	0.004-0.011	0.0004-0.0097	
SOx	mg/m ³	≤ 0.30	**<0.001-0.009	0.0011-0.0034	0.004-0.011	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	**0.018-0.048	0.028-0.071	0.025-0.057	0.030-0.041	
Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.030-0.066	0.034-0.061	0.014-0.035	0.023-0.033	
Location 3: Nong La Lok Community							
NOx	ppm	≤ 0.17	**<0.001-0.008	0.0024-0.0153	0.001-0.029	0.0006-0.0128	
SOx	mg/m ³	≤ 0.30	**0.003-0.008	0.0011-0.0031	0.004-0.010	0.0073-0.0087	
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	**0.015-0.031	0.018-0.052	0.040-0.089	0.027-0.040	
Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.031-0.054	0.028-0.071	0.020-0.034	0.020-0.032	
Location 4: Ban Klong Nam Yen Community							
NOx	ppm	≤ 0.17	**<0.001-0.032	0.0061-0.0145	0.001-0.009	0.0020-0.0070	
SOx	mg/m ³	≤ 0.30	**0.001-0.008	0.0009-0.0032	0.003-0.014	0.0026-0.0046	
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	2021	2022	2023	2024
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	**0.014-0.088	0.022-0.047	0.032-0.056	0.033-0.052
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.031-0.125	0.033-0.066	0.014-0.035	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/m ³	≤ 0.30	**0.002-0.003	0.0016-0.0045	<0.001-0.008	0.0010-0.0012
	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	**0.016-0.021	0.030-0.147	0.083-0.111	0.052-0.099
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.030-0.038	0.019-0.054	0.040-0.063	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/m ³	≤ 0.30	**0.002-0.005	0.0016-0.0035	<0.001-0.003	0.0008-0.0010
	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	**0.026-0.053	0.030-0.051	0.101-0.167	0.045-0.119*
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.058-0.141	0.014-0.035	0.049-0.082	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/m ³	≤ 0.30	**0.001-0.005	0.0016-0.0034	<0.001-0.002	0.0002-0.0011
	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	**0.014-0.023	0.031-0.055	0.052-0.096	0.046-0.079
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.043-0.063	0.019-0.029	0.024-0.053	0.026-0.045
Location 4: Ban Mai Tung Din Khor School							
	NOx	ppm	≤ 0.17	**0.001-0.017	0.0050-0.0104	0.002-0.029	0.0028-0.0288
	SOx	mg/m ³	≤ 0.30	**0.002-0.005	0.0016-0.0038	0.001-0.009	0.0005-0.0006
	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	**0.017-0.026	0.030-0.068	0.067-0.101	0.053-0.102
	Total Suspended Particulate matter10 (PM10)	mg/m ³	< 0.12	**0.034-0.060	0.016-0.031	0.031-0.056	0.019-0.062
WHA R36							
Location 1: Charoen Si Rat Temple							
	NOx	ppm	≤ 0.17	N/A	N/A	N/A	0.0034-0.0078
	SOx	mg/m ³	≤ 0.3	N/A	N/A	N/A	0.0045-0.0064
	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	N/A	0.051-0.244
	Particulate matter10 (PM10)	mg/m ³	< 0.12	N/A	N/A	N/A	0.016-0.068
Location 2: Nong Wa Temple							
	NOx	ppm	≤ 0.17	N/A	N/A	N/A	0.004-0.0141
	SOx	mg/m ³	≤ 0.3	N/A	N/A	N/A	0.0039-0.0073
	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	N/A	0.017-0.039
	Particulate matter10 (PM10)	mg/m ³	< 0.12	N/A	N/A	N/A	0.003-0.011
Location 3: Prasitharam Temple							
	NOx	ppm	≤ 0.17	N/A	N/A	N/A	0.006-0.0137
	SOx	mg/m ³	≤ 0.3	N/A	N/A	N/A	0.0092-0.0114
	NOx	Tons	-	N/A	N/A	N/A	N/A

GRI Standard	Performance	Unit	Standard	2021	2022	2023	2024
	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	N/A	0.028-0.115
	Particulate matter10 (PM10)	mg/m ³	< 0.12	N/A	N/A	N/A	0.011-0.046
Location 4: Nong Rakam Temple							
	NOx	ppm	≤ 0.17	N/A	N/A	N/A	0.0036-0.0126
	SOx	mg/m ³	≤ 0.3	N/A	N/A	N/A	0.004-0.0047
	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	N/A	N/A	N/A	0.063-0.139
	Particulate matter10 (PM10)	mg/m ³	< 0.12	N/A	N/A	N/A	0.019-0.062
WHA IER							
Location 1: Hin Khong Temple							
	NOx	ppm	≤ 0.17	N/A	N/A	N/A	-
	SOx	mg/m ³	≤ 0.3	N/A	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	N/A	0.034-0.065
	Particulate matter10 (PM10)	mg/m ³	< 0.12	N/A	N/A	N/A	0.019-0.031
Location 2: Moo.11 Ban Sam Noen station 1							
	NOx	ppm	≤ 0.17	N/A	N/A	N/A	-
	SOx	mg/m ³	≤ 0.3	N/A	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	N/A	0.023-0.034
	Particulate matter10 (PM10)	mg/m ³	< 0.12	N/A	N/A	N/A	0.012-0.021
Location 3: Moo.11 Ban Sam Noen station 2							
	NOx	ppm	≤ 0.17	N/A	N/A	N/A	-
	SOx	mg/m ³	≤ 0.3	N/A	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	N/A	0.043-0.084
	Particulate matter10 (PM10)	mg/m ³	< 0.12	N/A	N/A	N/A	0.019-0.036
Location 4: Ban Khot Klang							
	NOx	ppm	≤ 0.17	N/A	N/A	N/A	-
	SOx	mg/m ³	≤ 0.3	N/A	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	N/A	0.025-0.063
	Particulate matter10 (PM10)	mg/m ³	< 0.12	N/A	N/A	N/A	0.011-0.047

Remark: **Data from WHAID, ***Data from WHAUP

Biodiversity

GRI Standard	Performance	Unit	2021	2022	2023	2024
S&P CSA	Biodiversity Exposure & Assessment					
	Total number of sites and the total area used for operational activities	Number	11	11	11	11
		Area (Hectares)	7,200	7,200	7,200	7,200
	Total number of sites and total area for operational activities that have conducted biodiversity impact assessments in past 5 years	Number	11	11	11	11
		Area (Hectares)	7,200	7,200	7,200	7,200

	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	667
	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	667

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 RUSSELL	Sites covered by recognized environmental management systems					
	ISO14001 or EMAS	Sites	12	12	12	12
	ISO9001	Sites	12	12	12	12

SOCIAL PERFORMANCE

Employment

GRI Standard	Performance	Unit	2021		2022		2023		2024		
			Male	Female	Male	Female	Male	Female	Male	Female	
2-7	Total number of employee	Person	615		732		796		888		
			390	225	458	274	506	290	558	330	
			390	225	427	251	470	265	499	297	
			N/A	N/A	31	23	36	25	59	33	
Total employee by age group											
Below 30 years old	Person	78	42	79	45	84	39	103	53		
	% FTEs	21.43	16.28	17.25	16.42	16.60	13.45	18.46	16.06		
	Person	258	155	318	197	356	219	400	249		
	% FTEs	70.88	60.08	69.43	71.90	70.35	75.52	71.68	75.45		
30-50 years old	Person	28	61	61	32	66	32	55	28		
	% FTEs	7.69	23.64	13.32	11.68	13.04	11.03	9.86	8.48		
	Person	97	99	111	110	132	136	140	161		
	% FTEs	N/A	N/A	9	10	9	10	14	15		
Over 50 years old	Person	178	190	196	240	141	146	154	176		
	% FTEs	196		240		287		330			
Total employee by level											
All Management Position											
Thailand	Person	97	99	111	110	132	136	140	161		
		N/A	N/A	9	10	9	10	14	15		
		178	190	196	240	141	146	154	176		
		196		240		287		330			
Top Management											
Thailand	Person	25	16	27	16	23	15	25	17		
		N/A	N/A	0	1	1	1	1	1		
		25	16	27	17	24	16	26	18		
		41		44		40		44			
Middle Management											
Thailand	Person	53	62	63	66	72	81	77	90		
		N/A	N/A	7	8	6	6	9	8		
		53	62	70	74	78	87	86	98		
		115		144		165		184			
Junior Management											
Thailand	Person	19	21	21	28	37	40	38	54		
		N/A	N/A	2	1	2	3	4	6		
		19	21	23	29	39	43	42	60		
		40		52		82		102			
Staff											
Thailand	Person	293	126	316	141	325	125	359	136		
		N/A	N/A	22	13	27	15	45	18		
		293	126	338	154	352	140	404	154		
		419		492		492		558			
Total employee by employment type											
Permanent employee by region											
Thailand	Person	387	224	423	247	457	261	492	295		
		N/A	N/A	31	23	36	25	59	33		
		387	224	454	270	493	286	551	328		
		611		724		779		879			
Temporary employee by region											
Thailand	Person	3	1	4	4	13	4	7	2		
		0	0	0	0	0	0	0	0		
		3	1	4	4	13	4	7	2		
		4		8		17		9			
Non-guaranteed hours employee by region											
Thailand	Person	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0		
		0		0		0		0			
Full-time employee by region											
Thailand	Person	390	225	427	251	470	265	499	297		
		N/A	N/A	31	23	36	25	59	33		

GRI Standard	Performance	Unit	2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
	Total full-time employee		390	225	458	274	506	290	558	330
			615		732		796		888	
Part-time employee by region										
Thailand	Person	0	0	0	0	0	0	0	0	0
Vietnam		0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
Total part-time employee		0		0		0		0		0

GRI Standard	Performance	Unit	2021		2022		2023		2024		
			Male	Female	Male	Female	Male	Female	Male	Female	
401-1											
	New employee hires										
	Total number of new employee hires	Person	44	34	73	54	84	45	92	68	
			78		127		129		160		
	New hire rate	% of total employee	12.68		17.35		16.21		18.02		
	Open positions filled by internal candidate (internal hires)	%	11.54		2.36		1.55		5.63		
	Average Hiring Cost/ FTE	Baht	9,300.00		19,000.00		21,524.00		20,025.63		
	New employee hires by region										
	Thailand	Person	44	34	72	48	77	40	66	59	
		% of total employee	7.15	5.53	9.84	6.56	9.67	5.03	7.43	6.64	
	Vietnam	Person	N/A	N/A	1	6	7	5	26	9	
		% of total employee	N/A	N/A	0.14	0.82	0.88	0.63	2.93	1.01	
New employee hires by nationality											
	Thai	Person	N/A	N/A	72	48	78	40	66	59	
		% of total employee	N/A	N/A	9.84	6.56	9.80	5.03	7.43	6.64	
	Vietnamese	Person	N/A	N/A	1	6	6	5	26	9	
		% of total employee	N/A	N/A	0.14	0.82	0.75	0.63	2.93	1.01	
	American	Person	N/A	N/A	0	0	0	0	0	0	
		% of total employee	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	
	Canadian	Person	N/A	N/A	0	0	0	0	0	0	
		% of total employee	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	
	French	Person	N/A	N/A	0	0	0	0	0	0	
		% of total employee	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	
	Japanese	Person	N/A	N/A	0	0	0	0	0	0	
		% of total employee	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	
New employee hires by management level											
Top Management											
	Thailand	Person	4	3	4	2	0	0	2	2	
		% of total employee	0.65	0.49	0.55	0.27	0.00	0.00	0.23	0.23	
	Vietnam	Person	N/A	N/A	0	0	0	0	0	0	
		% of total employee	N/A	N/A	0	0	0.00	0.00	0.00	0.00	
Middle Management											
	Thailand	Person	7	9	13	9	19	10	7	8	
		% of total employee	1.14	1.46	1.78	1.23	2.39	1.26	0.79	0.90	
	Vietnam	Person	N/A	N/A	0	1	1	0	1	2	
		% of total employee	N/A	N/A	0	0.14	0.13	0.00	0.11	0.23	
Junior/ Low level Management											
	Thailand	Person	5	1	9	10	8	8	3	13	
		% of total employee	0.81	0.16	1.23	1.37	1.01	1.01	0.34	1.46	
	Vietnam	Person	N/A	N/A	0	1	1	1	3	2	
		% of total employee	N/A	N/A	0	0.14	0.13	0.13	0.34	0.23	
New employee by age											
	Below 30 years old	Person	21	17	26	21	30	17	34	27	
		% of total employee	3.41	2.76	3.55	2.87	3.77	2.14	3.83	3.04	
	Thailand	Person	21	17	26	18	29	14	26	23	
		N/A	N/A	0	3	1	3	8	4		
	30-50 years old	Person	23	20	46	33	53	28	58	41	

GRI Standard	Performance	Unit	2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
	% of total employee		3.74	2.60	6.28	4.51	6.66	3.52	6.53	4.62
Thailand	Person	23	16	45	30	47	26	40	36	
Vietnam		N/A	N/A	1	3	6	2	18	5	
Over 50 years old	Person	0	1	1	0	1	0	0	0	
	% of total employee	0	0.15	0.14	0.00	0.13	0.00	0.00	0.00	
Thailand	Persons	0	1	1	0	1	0	0	0	
Vietnam		N/A	N/A	0	0	0	0	0	0	
Turnover rate										
Total employee turnover	Person	25	22	24	22	26	22	18	18	
		47		46		48		36		
Dismissal of Employee	Person	0	0	0	0	0	0	0	0	
Voluntary Leave	Person	25	22	24	22	26	22	18	18	
Turnover rate	% of total employee	7.64		6.28		6.03		4.05		
	% of total employee	7.64		6.28		6.03		4.05		
Data coverage (as % of all FTEs globally)	%	100		100		100		100		
Employee turnover by region										
Thailand	Person	25	19	23	21	24	20	16	16	
	% of total employee	4.07	3.09	3.14	2.87	5.25	7.66	3.25	5.42	
Vietnam	Person	N/A	N/A	1	1	2	2	2	2	
	% of total employee	N/A	N/A	0.14	0.14	5.56	8.00	3.39	6.06	
Employee turnover by age										
Below 30 years old	Person	4	9	5	5	11	9	6	8	
	% of total employee	0.65	1.46	0.68	0.68	1.38	1.13	0.68	0.90	
30-50 years old	Person	20	13	18	17	13	12	11	10	
	% of total employee	3.25	2.11	2.46	2.32	1.63	1.51	1.24	1.13	
Over 50 years old	Person	1	0	1	0	2	1	0	1	
	% of total employee	0.16	0.00	0.14	0.00	0.25	0.13	0.00	0.11	
Turnover by management level										
Top Management										
Thailand	Person	2	2	1	1	1	0	1	1	
	% of total employee	0.33	0.33	0.14	0.14	0.13	0	0.11	0.11	
Vietnam	Person	N/A	N/A	0	0	0	0	0	0	
	% of total employee	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	
Middle Management										
Thailand	Person	7	3	4	6	4	3	4	3	
	% of total employee	1.14	0.49	0.55	0.82	0.50	0.38	0.45	0.34	
Vietnam	Person	N/A	N/A	1	0	0	1	0	1	
	% of total employee	N/A	N/A	0.14	0.00	0.00	0.13	0.00	0.11	
Junior/ Low level Management										
Thailand	Person	2	1	3	2	2	4	0	2	
	% of total employee	0.33	0.16	0.41	0.27	0.25	0.50	0.00	0.23	
Vietnam	Person	N/A	N/A	0	0	0	1	0	0	
	% of total employee	N/A	N/A	0.00	0.00	0.00	0.13	0.00	0.00	

GRI Standard	Performance	Unit	2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
404-1 Employee training										
Total number of training hours provided to employee	Hours	17,646		18,798		21,730		31,659.07		
		10,450	7,196	11,383	7,415	12,970	8,761	19,467.17	12,191.90	
Average hours of training and development	Hours/FTE/Year	28.69		25.68		27.30		35.65		
		27.00	31.12	26.66	29.54	25.63	30.21	34.89	36.95	
Average days of training and development	Days/FTE/Year	1.20		1.07		1.14		1.49		
		1.13	1.34	1.11	1.23	1.07	1.26	1.45	1.54	
Average amount spent on FTE on training and development	Baht	2,766.48		9,520.85		13,472.24		14,641.12		
		2,326.27	3,527.62	8,847.43	12,714.80	12,437.34	15,277.95	12,759.37	17,822.99	
Total number of training hours provided to employee by business units										
WHA Industrial Development	Hours	5,527	4,079	5,007	3,692	6,330	4,269	9,463.58	6,242.72	
		3,145	726	3,443	924	4,222	1,117	6,362.63	1,401.58	
		1,600	2,360	2,472	2,638	2,076	3,240	3,002.43	4,305.07	
		178	31	459	158	342.0	136	638.52	242.53	
Average training hours by business units										
WHA Industrial Development	Hours	27.77	36.75	29.84	36.51	24.63	28.08	39.11	44.27	
		25.99	23.41	30.41	31.67	26.22	30.18	39.03	33.37	
		28.57	29.13	38.62	29.31	28.43	34.46	40.03	40.61	
		16.21	30.96	38.25	39.50	22.80	19.43	33.61	30.32	
Average hours of training by employee category										
Total number of executives	Person	41		44		40		44		
Total number of training hours provided to executives	Hours	803.77		2,026.00		938.50		2,060.20		
Average hours of training for executives	Hours	19.60		46.05		23.46		46.82		
Total number of middle management	Person	115		144		165		184		
Total number of training hours provided to middle management	Hours	3,905.94		7,564.50		5,392.00		7,254.10		
Average hours of training for middle management	Hours	33.96		52.53		32.68		39.42		
Total number of junior management	Person	40		52		82		102		
Total number of training hours provided to junior management	Hours	1,539.38		232.00		2,279.50		2,675.23		
Average hours of training for junior management	Hours	38.48		4.46		27.80		26.23		
Total number of staff	Person	419		492		492		558		
Total number of training hours provided to staffs	Hours	11,396.88		8,975.00		13,120.00		19,669.53		
Average hours of training for staffs	Hours	27.20		18.24		26.67		35.25		
Average hours of training by age group										
Below 30 years old	Hours/FTE/Year	-	-	19.18	26.44	28.75	32.65	26.99	30.01	
30-50 years old		-	-	27.16	17.06	25.24	29.95	37.13	37.25	
Over 50 years old		-	-	20.18	17.06	20.05	25.25	33.38	47.40	
Average hours of training by training type										
In-house training	Hours/FTE/Year	-	-	22.00	25.00	23.75	28.81	31.43	34.24	
Public training		-	-	3.00	2.00	1.88	1.40	3.46	2.71	
Average hours of training by nationality										
Thai	Hours/FTE/Year	-	-	26.66	29.54	26.04	31.49	36.74	38.45	
Others		-	-	0.00	0.00	25.63	30.21	19.20	23.38	

GRI Standard	Performance	Unit	2021		2022		2023		2024					
			Male	Female	Male	Female	Male	Female	Male	Female				
Human Capital Return on Investment														
Human Capital Return on Investment (Normalized Basis*)			11.49		12.25		13.33		12.2					
Human Capital Return on Investment (Reported Basis)			11.78		12.25		13.34		12.2					
401-3 Parental leave														
Employee that were entitled to parental leave			Person	-	225	-	274	-	286	551	328			
WHA Logistics				-	81	-	90	-	94	75	106			
WHA Industrial Development				-	111	-	143	-	148	288	169			
WHA Utilities and Power				-	31	-	37	-	37	169	45			
WHA Digital				-	2	-	4	-	7	19	8			
Total employee that took parental leave			Person	-	1	-	7	-	6	7	6			
WHA Logistics				-	1	-	4	-	1	-	2			
WHA Industrial Development				-	0	-	3	-	5	6	3			
WHA Utilities and Power				-	0	-	0	-	0	1	0			
WHA Digital				-	0	-	0	-	0	-	1			
Total employee that returned to work in the reporting period after parental leave ended			Person	-	1	-	7	-	6	7	6			
WHA Logistics				-	1	-	4	-	1	-	2			
WHA Industrial Development				-	0	-	3	-	5	6	3			
WHA Utilities and Power				-	0	-	0	-	0	1	0			
WHA Digital				-	0	-	0	-	0	-	1			
Total employee that returned to work after parental leave ended that were still employed 12 months after their return to work			Person	-	1	-	7	-	6	7	6			
WHA Logistics				-	1	-	4	-	1	-	2			
WHA Industrial Development				-	0	-	3	-	5	6	3			
WHA Utilities and Power				-	0	-	0	-	0	1	0			
WHA Digital				-	-	-	0	-	0	-	1			
Total return to work rate			%	-	100	-	100	-	100	-	100			
WHA Logistics				-	100	-	100	-	100	-	100			
WHA Industrial Development				-	-	-	100	-	100	-	100			
WHA Utilities and Power				-	-	-	-	-	-	-	-			
WHA Digital				-	-	-	-	-	-	-	100			
Total retention rate			%	-	100	-	100	-	100	-	100			
WHA Logistics				-	100	-	100	-	100	-	100			
WHA Industrial Development				-	-	-	100	-	100	-	100			
WHA Utilities and Power				-	-	-	-	-	-	-	-			
WHA Digital				-	-	-	-	-	-	-	100			
404-3 Employees receiving regular performance and career development reviews														
Total number of employee receiving regular performance and career development reviews by gender			Person	390	225	454	270	493	286	551	328			
			%	100.00	100.00	99.13	98.54	97.43	98.62	98.75	99.39			
Performance review by employee category														
Total number of executives who received regular performance and career development reviews			Person	41		44		40		44				
WHA Logistics				14		15		14		16				

GRI Standard	Performance	Unit	2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
WHA Industrial Development			19		20		18		22	
			7		8		7		5	
			1		1		1		1	
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		115		138		165		183	
WHA Logistics			45		49		61		63	
WHA Industrial Development			51		63		73		78	
WHA Utilities & Power			17		24		26		38	
WHA Digital			2		2		5		4	
Percentage of middle management who received regular performance and career development reviews	%		100.00		95.83		100.00		99.46	
Total number of junior management who received regular performance and career development reviews	person		40		50		82		102	
WHA Logistics			17		20		27		31	
WHA Industrial Development			14		21		39		54	
WHA Utilities & Power			8		8		14		15	
WHA Digital			1		1		2		2	
Percentage of junior management who received regular performance and career development reviews	%		100.00		96.15		100.00		100.00	
Total number of staffs who received regular performance and career development reviews	Person		419		492		492		550	
WHA Logistics			62		70		64		70	
WHA Industrial Development			226		269		267		303	
WHA Utilities & Power			120		141		147		157	
WHA Digital			11		12		14		20	
Percentage of staffs who received regular performance and career development reviews	%		100.00		100.00		100.00		98.57	
Trend of Employee Engagement										
Employee Engagement	% of actively engaged employee		68		75		73		73	
Employee Engagement Target 2024			76							
Data Coverage	% of total employee		93		99		99		99	
Data Coverage Target 2024			100							

Remark: *Normalized Revenue excluded FX impact and impact from accounting standard adjustment

Labor Practice Indicator

GRI Standard	Performance	Unit	2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
405-1	Total number of governance bodies members	Person	8	1	9	1	7	1	7	2
	WHA Logistics		3	1	3	1	2	1	2	1
	WHA Industrial Development		3	0	3	0	2	0	2	1
	WHA Utilities and Power	Person	2	0	3	0	3	0	3	0
	WHA Digital		0	0	0	0	0	0	0	0
	Diversity of governance bodies by gender	%	88.89	11.11	90.00	10.00	87.50	12.50	77.78	22.22
	Diversity of governance bodies by age group									
	Below 30 years old	Person	0		0		0		0	
		%	0.00		0.00		0.00		0.00	
	30-50 years old	Person	4		3		3		4	
		%	40.00		30.00		37.50		44.44	
	Over 50 years old	Person	6		7		5		5	
		%	60.00		70.00		62.50		55.56	
	Diversity of total workforce by age group									
	Below 30 years old	Person	78	42	79	45	84	39	103	53
		% FTEs	20.00	18.67	17.25	16.42	10.55	4.90	11.60	5.97
	30-50 years old	Person	258	155	318	197	356	219	400	249
		% FTEs	66.15	68.89	69.43	71.90	44.72	27.51	45.05	28.04
	Over 50 years old	Person	54	28	61	32	66	32	55	28
		% FTEs	13.85	12.44	13.32	11.68	8.29	4.02	6.19	3.15
	Diversity of employee by gender									
	Top management	Person	25	16	27	17	24	16	26	18
		% FTEs	60.98	39.02	61.36	38.64	3.02	2.01	2.93	2.03
	Middle management	Person	53	62	70	74	78	87	86	98
		% FTEs	46.09	53.91	48.61	51.39	9.80	10.93	9.68	11.04
	Junior management	Person	19	21	23	29	39	43	42	60
		% FTEs	47.50	52.50	44.23	55.77	4.90	5.40	4.73	6.76
	Staff	Person	293	126	338	154	352	140	404	154
		% FTEs	69.93	30.07	68.70	31.30	44.22	17.59	45.50	17.34
	Diversity of employee by level and age group									
	Top management									
	Below 30 years old	Person	0		0		0		0	
		% FTEs	0		0		0		0	
	30-50 years old	Person	23		26		23		32	
		% FTEs	56.10		59.09		8.01		9.70	
	Over 50 years old	Person	18		18		15		12	
		% FTEs	43.90		40.91		5.23		3.64	
	Total of top management	Person	41		44		38		44	
	Middle management									
	Below 30 years old	Person	3		1		0		0	
		% FTEs	2.61		0.69		0		0	
	30-50 years old	Persons	93		120		132		164	
		% FTEs	80.87		83.33		45.99		49.70	
	Over 50 years old	Person	19		23		21		20	
		% FTEs	16.52		15.97		7.32		6.06	
	Total of middle management	Person	115		144		153		184	
	Junior management									
	Below 30 years old	Person	3		2		0		3	
		% FTEs	7.50		3.85		0		0.91	
	30-50 years old	Person	33		47		70		92	
		% FTEs	82.50		90.38		24.39		27.88	
	Over 50 years old	Person	4		3		7		7	
		% FTEs	10.00		5.77		2.44		2.12	

GRI Standard	Performance	Unit	2021		2022		2023		2024		
			Male	Female	Male	Female	Male	Female	Male	Female	
Total of junior management		Person	40		52		77		102		
Staff											
Below 30 years old	Person	114	121		111		152				
	% FTEs	27.21	24.59		13.94		17.12				
30-50 years old	Person	264	322		294		362				
	% FTEs	63.01	65.45		36.93		40.77				
Over 50 years old	Person	41	49		45		44				
	% FTEs	9.79	9.96		5.65		4.95				
Total of staff		Person	419		492		450		558		
Employee with disabilities											
Total	Person	0	0		0		1		0		
	% of total employee	0.00	0.00		0.00		0.13		0.00		
Share of women in total workforce											
Share of women in total workforce	Person	0	225		0		274		0		
Share of women in total workforce	% of total workforce	0	36.59		0		37.43		0		
Target 2024	%						40				
Share of women in all management positions, including junior, middle and top management	Person	0	99		0		124		0		
Share of women in all management positions, including junior, middle and top management	% of total management positions	0	50.51		0		51.67		0		
Target 2024	%						50				
Share of women in junior management positions, i.e. first level of management	Person	0	21		0		25		0		
Share of women in junior management positions, i.e. first level of management	% of total junior management positions	0	52.50		0		48.08		0		
Target 2024	%						50				
Share of women in top management positions, i.e. maximum two levels away from the CEO or comparable positions	Person	0	15		0		16		0		
Share of women in top management positions, i.e. maximum two levels away from the CEO or comparable positions	% of total top management positions	0	36.59		0		36.36		0		
Target 2024	%						45				
Share of women in management positions in revenue-generating functions (e.g. sales)	Person	0	21		0		24		0		
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	53.85		0		48.00		0		
Target 2024	%						50				
Share of women in STEM-related positions	Person	0	87		0		97		0		
Share of women in STEM-related positions	% of total STEM positions	0	53.37		0		54.19		0		

GRI Standard	Performance	Unit	2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
	Target 2024	%	55							
S&P CSA	Breakdown based on Nationality: Thailand									
	Share in total workforce	Person	386	225	423	251	470	265	497	297
	Share in total workforce	% of total workforce	62.76	36.59	57.79	34.29	59.05	33.29	55.97	33.45
	Share in all management positions, including junior, middle and senior management	Person	97	99	111	110	132	136	140	161
	Share in all management positions, including junior, middle and senior management	% of total management workforce	15.77	16.10	15.16	15.03	45.83	47.22	42.42	48.79
	Breakdown based on Nationality: Others									
	Share in total workforce (American)	Person	1	0	1	0	0	0	0	0
		% of total workforce	0.16	0	0.14	0	0	0	0.00	0.00
	Share in all management positions, including junior, middle and senior management (American)	Person	1	0	1	0	0	0	0	0
		% of total management workforce	0.51	0	0.42	0	0	0	0.00	0.00
	Share in total workforce (Canadian)	Person	1	0	1	0	1	0	0	0
		% of total workforce	0.16	0	0.14	0	0.13	0	0.00	0.00
	Share in all management positions, including junior, middle and senior management (Canadian)	Person	1	0	1	0	1	0	0	0
		% of total management workforce	0.51	0	0.42	0	0.35	0	0.00	0.00
	Share in total workforce (French)	Person	1	0	1	0	1	0	1	0
		% of total workforce	0.16	0	0.14	0	0.13	0	0.11	0.00
	Share in all management positions, including junior, middle and senior management (French)	Person	1	0	1	0	1	0	1	0
		% of total management workforce	0.51	0	0.42	0	0.35	0	0.30	0.00
	Share in total workforce (Vietnamese)	Person	0	0	31	23	33	25	59	33
		% of total workforce	0	0	4.23	3.14	4.15	3.14	6.64	3.72
	Share in all management positions, including junior, middle and senior management (Vietnamese)	Person	0	0	0	1	7	10	13	14
		% of total management workforce	0	0	0	0.42	2.43	3.47	3.94	4.24
	Share in total workforce (Japanese)	Person	1	0	1	0	1	0	1	0
		% of total workforce	0.16	0	0.14	0	0.13	0	0.11	0.00
	Share in all management positions, including junior, middle and senior management (Japanese)	Person	1	0	1	0	1	0	1	0
		% of total management workforce	0.51	0	0.42	0	0.35	0	0.30	0.00
405-2	Ratio of basic salary and remuneration of women to men									
	Average pay for female to male executives	-	1.41		1.41		0.84		1.53	
	Average pay for female to male management		1.20		1.21		0.97		1.01	

GRI Standard	Performance	Unit	2021		2022		2023		2024		
			Male	Female	Male	Female	Male	Female	Male	Female	
Average pay for female to male non-management			1.04		1.07		1.17		1.09		
Equal pay analysis											
Executive level (base salary only)	Average Baht/Person	444,000	320,000	541,000	370,000	321,000	289,200	506,000	327,400		
		495,500	352,000	553,000	391,300	403,700	480,000	870,000	570,000		
		94,500	110,080	81,200	111,250	78,000	73,000	80,200	79,600		
		119,400	143,000	95,800	116,300	107,000	103,400	120,000	120,700		
		37,500	38,800	28,400	33,800	21,000	30,500	24,000	32,500		
		44,500	46,500	32,500	34,650	36,000	42,000	45,600	49,600		

Collective Bargaining Agreements

GRI Standard	Performance	Unit	2021	2022	2023	2024
2-30	Freedom of Association Percentage of total employee 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 Operation	Sites	11	11	11	11	14
	% of Sites	100	100	100	100	100
B. % of total assessed (of A.) where risks have been identified	Sites	11	11	11	11	14
	% of Sites	100	100	100	100	100
C. % of total assessed (of B.) with mitigation actions taken	Sites	11	11	11	11	14
	% of Sites	100	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	638	594	583	680	
	% of Contractors and Tier-1 Suppliers	100	100	100	100	
B. % of total assessed (of A.) where risks have been identified	Contractors and Tier-1 Suppliers	0	0	0	0	
	% of Contractors and Tier-1 Suppliers	0	0	0	0	
C. % of total assessed (of B.) with mitigation actions taken	Contractors and Tier-1 Suppliers	0	0	0	0	

		% of Contractors and Tier-1 Suppliers	0	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	32	32	32	32	
	% of Joint Ventures	100	100	100	100	
B. % of total assessed (of A.) where risks have been identified	Joint Ventures	0	0	0	0	
	% of Joint Ventures	0	0	0	0	
C. % of total assessed (of B.) with mitigation actions taken	Joint Ventures	0	0	0	0	
	% of Joint Ventures	0	0	0	0	
412-2	Employee training on 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	180	100	82	127
	% of employee 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	-	-	-	
	Percentage	%	-	-	-	

Community Development

GRI Standard	Performance	Unit	2021	2022	2023	2024
413-1 Industrial estates with community engagement						
	Total number of industrial estates/ lands	Operation unit	10	11	12	12
- Industrial estates/ lands involved with local community engagement	Operation unit	10	11	12	12	
	%	100.00	100.00	100.00	100.00	
- Industrial estates/ lands involved with social impact assessment	Operation unit	10	10	12	12	
	%	100.00	81.81	100.00	100.00	
- Industrial estates/ lands with environmental impact assessments and ongoing monitoring	Operation unit	10	11	12	12	
	%	100.00	100.00	100.00	100.00	
- Industrial estates/ lands involved with public disclosure of results of environmental and social impact assessments	Operation unit	10	9	12	12	
	%	100.00	81.81	100.00	100.00	
- Industrial estates/ lands involved with local community development programs based on local communities' needs	Operation unit	10	11	12	12	
	%	100.00	100.00	100.00	100.00	
- Industrial estates/ lands involved with broad based local community consultation committees and processes that include vulnerable groups	Operation unit	10	11	12	12	
	%	100.00	100.00	100.00	100.00	

GRI Standard	Performance	Unit	2021	2022	2023	2024
	- Industrial estates/ lands involved with works councils, occupational health and safety committees	Operation unit	10	11	12	12
		%	100.00	100.00	100.00	100.00
Type of Philanthropic Activities						
	Total type of philanthropic activities	% of total cost	100.00	100.00	100.00	100.00
	A) Charitable donations	% of total cost	29.10	25.39	20.06	16.31
	WHA Logistics		0.00	0.00	0.00	0.00
	WHA Industrial Development		8.73	5.33	13.04	10.60
	WHA Utilities & Power		20.37	20.06	7.02	5.71
	WHA Digital		0.00	0.00	0.00	0.00
	B) Community investment	% of total cost	32.46	24.61	21.23	25.33
	WHA Logistics		6.27	0.00	0.00	16.47
	WHA Industrial Development		7.86	5.17	13.80	8.86
	WHA Utilities & Power		18.33	19.44	7.43	0.00
	WHA Digital		0.00	0.00	0.00	0.00
	C) Community initiatives	% of total cost	38.44	50.00	58.71	58.36
	WHA Logistics		0.00	3.26	0.00	0.00
	WHA Industrial Development		11.53	9.81	38.16	37.93
	WHA Utilities & Power		26.91	36.93	20.55	20.43
	WHA Digital		0.00	0.00	0.00	0.00
Philanthropic Contributions						
	Total amount of Cash contributions	Million Baht	22.20	9.84	12.13	8.31
	WHA Logistics		1.41	1.12	0.00	0.00
	WHA Industrial Development		6.32	1.83	7.88	5.40
	WHA Utilities & Power		14.47	6.89	4.25	2.91
	WHA Digital		0.00	0.00	0.00	0.00
	Total amount of Time: employee volunteering during paid working hours	Million Baht	4.52	13.28	17.97	20.27
	WHA Logistics		1.12	2.08	3.41	3.86
	WHA Industrial Development		1.02	7.24	8.91	9.11
	WHA Utilities & Power		2.37	3.93	5.61	7.28
	WHA Digital		0.01	0.03	0.04	0.02
	Total amount of In-kind giving: product or services donations, projects/partnerships or similar	Million Baht	43.51	46.13	36.65	50.94
	WHA Logistics		42.91	1.12	0.00	0.00
	WHA Industrial Development		0.60	11.73	23.82	33.11
	WHA Utilities & Power		0.00	33.28	12.83	17.83
	WHA Digital		0.00	0.00	0.00	0.00
	Total amount of Management overheads	Million Baht	5.63	7.75	11.14	10.12
	WHA Logistics		0.61	1.30	2.96	2.28
	WHA Industrial Development		3.91	5.30	5.97	5.78
	WHA Utilities & Power		1.11	1.07	2.13	1.72
	WHA Digital		0.00	0.08	0.08	0.34

Occupational Health and Safety

GRI Standard	Performance	Unit	2021	2022	2023	2024
403-8	Number of worker who covered by an occupational health and safety management system					
403-8	employee and worker who are not employee but whose work and/or workplace is controlled by the organization, who are covered by such a system;	%	100	100	100	100
	employee and worker who are not employee 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
	employee and worker who are not employee 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					
403-9	Employee	Hours	1,726,988	1,185,274	1,178,004	1,293,129
	WHA Logistics		185,768	149,250	65,960	85,776
	WHA Industrial Development		1,188,194	583,743	594,368	659,074
	WHA Utilities & Power		320,746	444,553	511,938	541,054
	WHA Digital		32,280	7,728	5,738	7,225
	Contractor		1,045,239	8,345,341	7,415,504	5,533,238
	WHA Logistics		578,496	4,461,919	3,410,663	4,592,520
	WHA Industrial Development		74,750	3,086,284	3,076,171	2,865,094
	WHA Utilities & Power		391,993	695,813	885,540	921,218
	WHA Digital		-	101,325	43,130	19,500
Lost time injury frequency rate (LTIFR) – Employee						
403-9	Employee	Case per 1,000,000 hours worked	1.16	1.61	0.00	0.00
	WHA Logistics		0.58	0.00	0.00	0.00
	WHA Industrial Development		0.00	5.14	0.00	0.00
	WHA Utilities and Power		0.58	0.00	0.00	0.00
	WHA Digital		0.00	0.00	0.00	0.00
	Data coverage		% of employee	100.00	100.00	100
Lost time injury frequency rate (LTIFR) – Contractor						
403-9	Contractor	Case per 1,000,000 hours worked	0.00	0.35	0.27	0.52
	WHA Logistics		0.00	0.22	0.31	0.09
	WHA Industrial Development		0.00	0.32	0.27	0.17
	WHA Utilities and Power		0.00	1.44	0.00	0.26
	WHA Digital		0.00	0.00	0.00	0.00
	Data coverage		% of Contractor	100.00	100.00	100
Number of high consequences work related injuries						
403-9	Employee	Case/ 1,000,000 hours worked	0.00	0.00	0.00	0.00
	WHA Logistics		0.00	0.00	0.00	0.00
	WHA Industrial Development		0.00	0.00	0.00	0.00
	WHA Utilities and Power		0.00	0.00	0.00	0.00
	WHA Digital		0.00	0.00	0.00	0.00
	Contractor		0.00	0.19	0.00	0.11
	WHA Logistics		0.00	0.00	0.00	0.00
	WHA Industrial Development		0.00	0.29	0.00	0.11
	WHA Utilities and Power		0.00	0.00	0.00	0.00
	WHA Digital		0.00	0.00	0.00	0.00
Number of recordable work-related injuries						
403-9	Employee	Case	0	3	1	0
	WHA Logistics		1	0	0	0
	WHA Industrial Development		0	3	0	0
	WHA Utilities and Power		1	0	1	0
	WHA Digital		0	0	0	0
	Contractor		1	3	2	6
	WHA Logistics		0	1	1	1
	WHA Industrial Development		0	1	0	2

GRI Standard	Performance	Unit	2021	2022	2023	2024
	WHA Utilities and Power		1	1	1	3
	WHA Digital		0	0	0	0
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 2024	% of total days scheduled	0			
	Data Coverage	% of employee	100	100	100	100
Absentee Rate						
	Employee	% of total days scheduled	0.82	0.99	1.30	1.17
	Target 2024	% of total days scheduled	1.20			
	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
	WHA Logistics		0	0	0	0
	WHA Industrial Development		0	0	0	0
	WHA Utilities and Power		0	0	0	0
	WHA Digital		0	0	0	0
	Contractor		0	0	0	0
	WHA Logistics		0	0	0	0
	WHA Industrial Development		0	0	0	0
	WHA Utilities and Power		0	0	0	0
	WHA Digital		0	0	0	0
Number of recordable work-related ill health						
	Employee	Cases	0	0	0	0
	WHA Logistics		0	0	0	0
	WHA Industrial Development		0	0	0	0
	WHA Utilities and Power		0	0	0	0
	WHA Digital Platform		0	0	0	0
	Contractor		0	0	2	1
	WHA Logistics		0	0	1	0
	WHA Industrial Development		0	0	1	1
	WHA Utilities and Power		0	0	0	0
	WHA Digital		0	0	0	0

OHMS Training

GRI Standard	Performance	Unit	2021	2022	2023	2024
FTSE RUSSELL						
	Safety training					
	Staff trained on safety	Person	67	137	134	640
	Staff trained (General training which includes safety)	Person	90	184	174	730

Additional Information

Performance	Unit	2021	2022	2023	2024
Energy consumption within the organization*					
Energy consumption from non-renewable sources*					
Total non-renewable energy consumption	MWh	38,818.08	39,040.38	41,785.81	46,145.71
Diesel / Petrol/ Gasoline	MWh	4,883.00	5,649.96	5,957.51	6,848.55
Grid electricity consumption* (Excluding Renewable Energy Source)	MWh	33,935.08	33,390.42	35,828.30	39,297.16
Total non-renewable energy consumption intensity ratio*	MWh/THB mm	3.24	2.51	2.46	3.22
Target 2024	MWh	40,500			
Energy consumption from renewable source*					
Total renewable energy consumption*	MWh	3,195.00	4,290.18	4,558.23	4,688.33
Solar Power	MWh	863.03	1,656.84	1,619.70	1,675.89
Renewable energy portion from Grid electricity consumption*	MWh	2,331.97	2,633.34	2,938.53	3,012.44
Percentage of electricity from renewable sources (wind, water, solar, biogas)*	%	8.23	10.99	10.91	10.16
Total energy consumption					
Total	MWh	42,013.08	43,330.56	46,344.04	50,834.04
Data coverage for Energy Consumption					
Data coverage	% of Revenue	100	100	100	100

Remark: *Adjusted the energy consumption data by segregating the renewable and non-renewable portions within grid electricity consumption