

Sustainable Performance – Information on Environment

The environmental information in this report is aligned with the GRI Standards 2021 reporting guidelines and has been verified for accuracy by SGS (Thailand) Limited. It covers GRI 302-1 (2016) Energy consumption within the organization, GRI 303-3 (2018) Water withdrawal, GRI 303-4 (2018) Water discharge, GRI 305-1 (2016) Direct (Scope 1) GHG emissions, GRI 305-2 (2016) Energy indirect (Scope 2) GHG emissions, GRI 305-3 (2016) Other indirect (Scope 3) GHG emissions, GRI 306-3 (2020) Waste generated, GRI 306-4 (2020) Waste diverted from disposal, and GRI 306-5 (2020) Waste directed to disposal.

Additionally, the following details are important to highlight:

1. The abbreviation "NA" refers to "Not Available" or indicates that no data was collected, while "NR" stands for "Not Relevant."
2. The scope of data collection for companies has been expanded as follows:
 - In 2022, ten new companies were added: Green Pharmahol Co., Ltd., Bangkok Alcohol Industrial Co., Ltd., Kamphaengphet Green Energy Co., Ltd., Apcon Renewable Energy Co., Ltd., MP Apcon Operations Co., Ltd., Panel Design Lab Co., Ltd., Fair Fast Co., Ltd., Thai Environmental and Energy Development Co., Ltd. (Dan Chang), Health Innotech Co., Ltd., and Eto-Huay Kasain Valley Co., Ltd.
 - In 2023, nine new companies were added: Prize of Wood Green Energy Co., Ltd., Safe Biomass Co., Ltd., C.A.B. Woodchip Co., Ltd., Rungtiva Biomass Co., Ltd., Saraburi Solar Co., Ltd., Sawasdee Energy Holding Co., Ltd., Steem Inc Co., Ltd., Wood Solution Co., Ltd., and Khonkaen Innovation Center Co., Ltd.
 - In 2024, nine new companies were added: Mitrphol Sugar Co., Ltd. (Kasetsombun), Kasetsombun Bio-Power Co., Ltd., Deeyiam Solar Power Limited, BS Green Energy Co., Ltd., TPCP Power 1 Co., Ltd., TPCP Power 2 Co., Ltd., TPCP Power 5 Co., Ltd., Logis Link Co., Ltd., and Mitr Phol Biotech Co., Ltd.
 - In 2025, two new companies were added: Thai Environmental and Energy Development Co. (Phu Khieo), Ltd., and Songkla Green Energy Co., Ltd.
3. The business group classification of companies has been adjusted as follows:
 - In 2022, Ratchasima Green Starch Co., Ltd. was categorized as part of the Energy Business. Starting in 2023, it was reclassified under Other Business.

Volume of Materials Used in Production Processes of Mitr Phol Group

Business Unit	Data	Unit	2022	2023	2024	2025
GRI 301-1 (2016) Volume of Materials Used						
Mitr Phol Group	Renewable materials used	Tons	11,257,033	22,126,869.33	22,968,283.02	19,714,637.00
	Non-renewable materials used	Tons	456,931	294,107.06	440,401.04	469,433.59
	Total materials used	Tons	11,713,964	22,420,976.40	23,408,684.06	20,184,070.59
Farming business	Renewable materials used	Tons	277,824	1,198.14	27,670.66	11,627.43
	Non-renewable materials used	Tons	227	9.94	6,545.77	13,077.68
	Total materials used	Tons	278,051	1,208.09	34,215.83	24,705.11
Sugar business	Renewable materials used	Tons	7,868,364	19,309,674.54	13,441,251.36	10,252,355.03
	Non-renewable materials used	Tons	118,123	74,572.72	115,598.48	136,847.71
	Total materials used	Tons	7,986,487	19,384,247.26	13,556,849.84	10,389,202.74
Energy business	Renewable materials used	Tons	1,962,692	1,716,777.64	8,426,615.28	4,696,399.57
	Non-renewable materials used	Tons	11,845	17,388.67	41,785.03	4,150.83
	Total materials used	Tons	1,974,537	1,734,166.31	8,468,400.31	4,700,550.40

Business Unit	Data	Unit	2022	2023	2024	2025
Wood substitute materials business	Renewable materials used	Tons	927,357	1,458,210.67	1,500,610.11	1,765,383.21
	Non-renewable materials used	Tons	78,758	92,324.44	134,630.55	144,622.67
	Total materials used	Tons	1,006,115	1,550,535.11	1,635,240.66	1,910,005.88
Fertilizer business	Renewable materials used	Tons	18,015	23,233.64	18,051.87	1,124.08
	Non-renewable materials used	Tons	247,934	109,155.15	139,567.32	125,428.54
	Total materials used	Tons	265,949	132,388.80	157,619.19	126,552.62
Logistics and warehouse business	Renewable materials used	Tons	0	0	0	8.52
	Non-renewable materials used	Tons	34.98	14.08	145.60	81.55
	Total materials used	Tons	34.98	14.08	145.60	90.07
Other business	Renewable materials used	Tons	18.40	314.17	198,628.35	2,166.53
	Non-renewable materials used	Tons	41.84	642.06	2,218.30	406.68
	Total materials used	Tons	60.24	956.23	200,756.65	2,573.21
GRI 301-2 (2016) Recycled Input Materials Used						
Mitr Phol Group	Percentage of recycled input materials used	Percent	0.26	0.20	0.08	0.0008

Remarks: The material volume for Mitr Phol Group excludes the volume of materials purchased internally between its companies.

Energy Consumption

Business Unit	Data	Unit	2022	2023	2024	2025
GRI 302-1 (2016) Energy Consumption Within the Organization						
Mitr Phol Group	Total energy consumption within the organization	Million MJ	67,536.56	75,866.43	76,739.18	75,103.00
	Energy consumption within organization from non-renewable fuel	Million MJ	515.47	531.91	561.73	473.54
	Energy consumption within organization from renewable fuel	Million MJ	73,833.07	81,611.04	83,679.27	82,015.54
	Fuel types used					
	Non-renewable fuel					
	- Liquefied petroleum gas (LPG)	Million MJ	97.01	98.44	110.10	107.37
	- Gasoline	Million MJ	1.54	4.76	5.70	9.35
	- Fuel oil	Million MJ	8.43	5.78	16.39	7.12
	- Bituminous	Million MJ	132.31	69.32	0	3.12
	Non-renewable fuel mixed with renewable fuel					
	-Biodiesel B5	Million MJ	Included in Biodiesel B7 volume.	0	0	2.72
	-Biodiesel B7	Million MJ	270.64	337.35	424.50	443.33

Business Unit	Data	Unit	2022	2023	2024	2025
	- Biodiesel B10	Million MJ	0.21	5.94	3.49	0
	- Gasohol E10/ Gasohol 91/ Gasohol 95	Million MJ	14.71	17.78	19.19	9.32
	- Gasohol E20	Million MJ	1.08	0.70	0.72	0.30
	- Gasohol E85	Million MJ	0.15	0.05	0	0.07
	Renewable fuel					
	- Biogas	Million MJ	348.20	127.54	76.61	108.24
	- Biomass	Million MJ	73,474.25	81,475.29	83,586.07	81,798.12
	Electricity and steam purchased from outside Mitr Phol Group	Million MJ	576.08	595.81	540.12	366.62
	- Non-renewable electricity purchased	Million MJ	576.08	595.81	540.12	366.62
	- Non-renewable steam purchased	Million MJ	0	0	0	0
	Generated electricity from solar power	Million MJ	29.68	86.24	88.42	122.48
	Electricity and steam sold to outside Mitr Phol Group	Million MJ	7,417.73	6,958.56	8,130.36	7,875.18
	- Renewable electricity sold	Million MJ	7,417.73	6,958.56	8,130.36	7,875.18
	- Renewable steam sold	Million MJ	0	0	0	0

Business Unit	Data	Unit	2022	2023	2024	2025
Farming business	Total energy consumption within the organization	Million MJ	11.60	7.86	10.45	7.83
	Energy consumption within organization from non-renewable fuel	Million MJ	4.12	5.49	6.46	4.00
	Energy consumption within organization from renewable fuel	Million MJ	0.10	0.14	0.12	0.14
	Electricity and steam purchased from outside organization	Million MJ	1.96	1.30	3.34	2.40
	- Non-renewable electricity purchased	Million MJ	1.96	1.30	3.34	2.40
	- Renewable electricity purchased	Million MJ	0	0	0	0
	- Renewable steam purchased	Million MJ	0	0	0	0
	Generated electricity from solar power	Million MJ	5.42	0.93	0.52	1.28
Sugar business	Total energy consumption within the organization	Million MJ	29,366.67	28,217.94	29,638.86	32,435.41
	Energy consumption within organization from non-renewable fuel	Million MJ	175.29	238.10	287.63	228.82
	Energy consumption within organization from renewable fuel	Million MJ	3,243.01	3,900.73	3,831.36	4,015.21

Business Unit	Data	Unit	2022	2023	2024	2025
	Electricity and steam purchased from outside organization	Million MJ	26,264.06	24,406.45	25,898.02	28,538.52
	- Non-renewable electricity purchased	Million MJ	27.83	33.33	37.23	35.79
	- Renewable electricity purchased	Million MJ	1,811.99	1,735.04	1,852.88	1,828.17
	- Renewable steam purchased	Million MJ	24,424.24	22,638.08	24,007.90	26,674.56
	Generated electricity from solar power	Million MJ	0	0	0	0.39
	Electricity and steam sold to outside organization	Million MJ	315.70	327.33	378.15	347.51
	- Renewable electricity sold	Million MJ	315.70	327.33	378.15	347.51
	- Renewable steam sold	Million MJ	0	0	0	0
Energy business	Total energy consumption within the organization	Million MJ	29,533.62	40,567.23	44,255.76	35,034.16
	Energy consumption within organization from non-renewable fuel	Million MJ	177.20	134.24	98.89	98.00
	Energy consumption within organization from renewable fuel	Million MJ	65,473.42	73,251.15	74,850.97	70,812.35
	Electricity and steam purchased from outside organization	Million MJ	97.91	44.74	103.07	55.29
	- Non-renewable electricity purchased	Million MJ	97.91	44.74	103.07	55.29

Business Unit	Data	Unit	2022	2023	2024	2025
	- Renewable electricity purchased	Million MJ	0	0	0	0
	- Renewable steam purchased	Million MJ	0	0	0	0
	Generated electricity from solar power	Million MJ	2.85	64.79	48.87	77.15
	Electricity and steam sold to outside organization	Million MJ	36,217.75	32,927.68	30,846.04	36,008.62
	- Renewable electricity sold	Million MJ	9,215.35	8,888.01	9,625.86	9,370.76
	- Renewable steam sold	Million MJ	27,002.40	24,039.67	21,220.18	26,637.86
Wood substitute materials business	Total energy consumption within the organization	Million MJ	5,372.79	4,986.55	5,368.75	7,388.30
	Energy consumption within organization from non-renewable fuel	Million MJ	108.32	126.36	130.28	106.77
	Energy consumption within organization from renewable fuel	Million MJ	5,086.93	4,428.01	4,891.90	7,060.35
	Electricity and steam purchased from outside organization	Million MJ	419.98	420.37	316.15	187.76
	- Non-renewable electricity purchased	Million MJ	419.98	420.37	316.15	187.76
	- Renewable electricity purchased	Million MJ	0	0	0	0
	- Renewable steam purchased	Million MJ	0	0	0	0
	Generated electricity from solar power	Million MJ	18.86	12.04	30.41	33.41

Business Unit	Data	Unit	2022	2023	2024	2025
	Electricity and steam sold to outside organization	Million MJ	0	0	0	0
	- Renewable electricity sold	Million MJ	0	0	0	0
	- Renewable steam sold	Million MJ	0	0	0	0
Fertilizer business	Total energy consumption within the organization	Million MJ	54.68	49.29	43.27	50.59
	Energy consumption within organization from non-renewable fuel	Million MJ	8.89	6.39	6.67	6.06
	Energy consumption within organization from renewable fuel	Million MJ	27.95	30.02	22.82	30.38
	Electricity and steam purchased from outside organization	Million MJ	15.29	10.35	11.23	11.51
	- Non-renewable electricity purchased	Million MJ	15.29	10.35	11.23	11.51
	- Renewable electricity purchased	Million MJ	0	0	0	0
	- Renewable steam purchased	Million MJ	0	0	0	0
	Generated electricity from solar power	Million MJ	2.55	2.53	2.55	2.64

Business Unit	Data	Unit	2022	2023	2024	2025
Logistics and warehouse business	Total energy consumption within the organization	Million MJ	26.84	13.09	20.28	29.30
	Energy consumption within organization from non-renewable fuel	Million MJ	17.84	3.92	12.22	18.80
	Energy consumption within organization from renewable fuel	Million MJ	0.08	0.03	0.10	0.11
	Electricity and steam purchased from outside organization	Million MJ	8.92	9.14	8.00	10.39
	- Non-renewable electricity purchased	Million MJ	8.92	9.14	8.00	10.39
	- Renewable electricity purchased	Million MJ	0	0	0	0
	- Renewable steam purchased	Million MJ	0	0	0	0
	Generated electricity from solar power	Million MJ	0	0	0	0
Other business	Total energy consumption within the organization	Million MJ	33.70	112.38	182.28	199.84
	Energy consumption within organization from non-renewable fuel	Million MJ	23.81	17.40	19.57	11.09
	Energy consumption within organization from renewable fuel	Million MJ	1.57	0.96	82.01	97.00

Business Unit	Data	Unit	2022	2023	2024	2025
	Electricity and steam purchased from outside organization	Million MJ	8.31	88.06	74.63	84.16
	- Non-renewable electricity purchased	Million MJ	4.19	76.58	61.14	63.48
	- Renewable electricity purchased	Million MJ	4.07	11.14	10.64	17.81
	- Renewable steam purchased	Million MJ	0.05	0.34	2.85	2.87
	Generated electricity from solar power	Million MJ	0.01	5.95	6.07	7.60
GRI 302-2 (2016) Energy Consumption Outside of the Organization						
Mitr Phol Group	Energy consumption outside of the organization	Million MJ	1,982.31	1,658.74	1703.07	1,630.35
Farming business	Energy consumption outside of the organization	Million MJ	4.80	4.00	16.07	1.77
Sugar business	Energy consumption outside of the organization	Million MJ	982.30	799.64	991.90	1,018.37
Energy business	Energy consumption outside of the organization	Million MJ	323.54	362.59	286.74	249.07
Wood substitute materials business	Energy consumption outside of the organization	Million MJ	508.00	186.17	133.02	150.38

Business Unit	Data	Unit	2022	2023	2024	2025
Fertilizer business	Energy consumption outside of the organization	Million MJ	18.40	104.39	50.01	25.15
Logistics and warehouse business	Energy consumption outside of the organization	Million MJ	128.11	158.24	195.98	147.82
Other business	Energy consumption outside of the organization	Million MJ	17.16	43.72	29.35	37.78
GRI 302-3 (2016) Energy Intensity						
Mitr Phol Group	Energy consumption within the organization per revenue	Million MJ/Million Baht	0.481	0.498	0.482	0.606
	Energy consumption outside the organization per revenue	Million MJ/Million Baht	0.014	0.011	0.011	0.013
CSA 2.2.2 Total Energy Consumption (in MWh)						
Mitr Phol Group	Total non-renewable energy consumption	MWh	303,207.78	313,255.08	306,069.46	233,376.86
	Total renewable energy consumption	MWh	18,456,962.94	20,760,772.16	21,010,369.58	20,628,567.45
	Target of total non-renewable energy consumption	MWh		291,079.47	278,951.16	266,822.85

Business Unit	Data	Unit	2022	2023	2024	2025
				(Reduced 4% from 2022)	(Reduced 8% from 2022)	(Reduced 12% from 2022)
	Total non-renewable energy consumption per revenue	MWh/Million baht	2.16	2.06	1.92	1.88
	Data coverage	% of revenue	100	100	100	100

Remarks:

1. Net calorific values refer to the data of the Department of Alternative Energy Development and Efficiency and the IPCC 2006.
2. The proportion of energy consumption within the organization per revenue includes energy consumption of fuel, electricity, steam and solar power.
3. Energy consumption outside the organization includes energy used for the transportation of raw materials and products by third-party service providers, as well as employees' business travel, including both ground transportation and air travel.
4. Biomass fuel includes bagasses, cane leaves, wood chips, etc.

Water Usage by the Water Sources

Business Unit	Data	Unit	All areas				Area with Water Stress			
			2022	2023	2024	2025	2022	2023	2024	2025
GRI 303-3 (2018) Water Withdrawal										
Mitr Phol Group	Total volume of water from surface water	Million liters	21,481.86	23,760.83	29,119.56	31,907.45	6,885.44	17,840.23	20,261.58	1,889.36
	- Freshwater (≤ 1,000 mg/L TDS)	Million liters	21,481.86	23,760.83	28,884.85	31,107.45	6,885.44	17,840.23	20,261.58	1,889.36
	- Other water (> 1,000 mg/L TDS)	Million liters	0	0	234.71	800.00	0	0	0	0
	Total volume of water from groundwater	Million liters	4,888.86	2,089.02	2,052.55	2,128.24	72.18	830.06	782.00	0.12
	- Freshwater (≤ 1,000 mg/L TDS)	Million liters	4,873.48	1,975.98	1,850.15	2,124.67	72.18	814.38	589.51	0.12
	- Other water (> 1,000 mg/L TDS)	Million liters	15.38	113.05	202.41	3.57	0	15.69	192.49	0
	Total volume of water from third-party water	Million liters	124.27	123.92	253.76	198.31	91.27	163.10	240.68	37.04
	- Freshwater (≤ 1,000 mg/L TDS)	Million liters	124.27	123.92	244.87	191.84	91.27	163.10	231.79	30.95

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
	- Other water (> 1,000 mg/L TDS)		Million liters	0	0	8.89	6.47	0	0	8.89	6.09
	Total volume of water from produced water		Million liters	2,897.07	1,714.77	1,993.19	2,724.55	184.70	1,142.28	1,094.10	109.28
	- Freshwater ($\leq$ 1,000 mg/L TDS)		Million liters	2,860.67	1,714.77	1,893.19	2,724.55	184.70	1,142.28	1,094.10	109.28
	- Other water (> 1,000 mg/L TDS)		Million liters	36.39	0	100.00	0	0	0	0	0
	Total volume of water from third-party water	Surface water	Million liters					65.82	163.10	231.79	20.62
		Ground water	Million liters					0	0	0	0.12
	Total volume of water		Million liters	29,392.06	27,688.54	33,419.06	36,958.55	7,233.59	19,975.67	22,378.35	2,035.79
Farming business	Total volume of water from surface water		Million liters	3,320.31	2,920.57	5,189.88	4,871.44	226.77	2,920.57	5,189.88	0
	- Freshwater ($\leq$ 1,000 mg/L TDS)		Million liters	3,320.31	2,920.57	5,189.88	4,871.44	226.77	2,920.57	5,189.88	0

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
	- Other water (> 1,000 mg/L TDS)		Million liters	0	0	0	0	0	0	0	0
	Total volume of water from groundwater		Million liters	3,856.25	583.11	519.58	667.70	48.36	583.11	519.58	0
	- Freshwater ($\leq$ 1,000 mg/L TDS)		Million liters	3,856.25	583.11	519.58	667.70	48.36	583.11	519.58	0
	- Other water (> 1,000 mg/L TDS)		Million liters	0	0	0	0	0	0	0	0
	Total volume of water from third-party water		Million liters	0	0	0	1,474.17	0	0	0	0
	- Freshwater ($\leq$ 1,000 mg/L TDS)		Million liters	0	0	0	1,245.55	0	0	0	0
	- Other water (> 1,000 mg/L TDS)		Million liters	0	0	0	228.62	0	0	0	0
	Total volume of water from	Surface water	Million liters					0	0	0	0
		Ground water	Million liters					0	0	0	0

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
	third-party water										
	Total volume of water		Million liters	7,176.56	3,503.68	5,709.46	7,013.31	275.13	3,503.68	5,709.46	0
Sugar business	Total volume of water from surface water		Million liters	10,485.08	12,666.10	14,224.17	15,287.26	5,909.45	10,360.84	10,052.78	1,499.15
	- Freshwater ($\leq 1,000$ mg/L TDS)		Million liters	10,485.08	12,666.10	14,224.17	14,487.26	5,909.45	10,360.84	10,052.78	1,499.15
	- Other water ($> 1,000$ mg/L TDS)		Million liters	0	0	0	800.00	0	0	0	0
	Total volume of water from groundwater		Million liters	71.27	53.85	102.59	55.44	0	6.57	19.11	0
	- Freshwater ($\leq 1,000$ mg/L TDS)		Million liters	71.27	42.66	102.59	55.44	0	0	0	0
	- Other water ($> 1,000$ mg/L TDS)		Million liters	0	11.18	0	0	0	6.57	19.11	0
	Total volume of water from third-party water		Million liters	149.09	282.64	675.63	3,904.28	25.46	0	257.25	3.61

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
	- Freshwater ($\leq 1,000$ mg/L TDS)		Million liters	149.09	282.64	675.63	2,605.81	25.46	0	257.25	3.61
	- Other water ($> 1,000$ mg/L TDS)		Million liters	0	0	0	1,298.47	0	0	0	0
	Total volume of water from produced water		Million liters	2,897.07	1,714.77	1,245.57	2,724.55	184.71	1,142.28	863.70	109.27
	- Freshwater ($\leq 1,000$ mg/L TDS)		Million liters	2,860.67	1,714.77	1,245.57	2,724.55	184.71	1,142.28	863.70	109.27
	- Other water ($> 1,000$ mg/L TDS)		Million liters	36.39	0	0	0	0	0	0	0
	Total volume of water from third-party water	Surface water	Million liters					25.46	0	257.25	3.61
		Ground water	Million liters					0	0	0	0
	Total volume of water		Million liters	13,602.51	14,717.36	16,247.95	21,971.53	6,119.61	11,509.69	11,192.84	1,612.04

Business Unit	Data	Unit	All areas				Area with Water Stress			
			2022	2023	2024	2025	2022	2023	2024	2025
Energy business	Total volume of water from surface water	Million liters	7,669.33	7,524.66	9,416.54	9,858.01	749.22	3,909.31	4,729.95	379.73
	- Freshwater ($\leq 1,000$ mg/L TDS)	Million liters	7,669.33	7,524.66	9,181.83	9,858.01	749.22	3,909.31	4,729.95	379.73
	- Other water ($> 1,000$ mg/L TDS)	Million liters	0	0	234.71	0	0	0	0	0
	Total volume of water from groundwater	Million liters	133.55	388.40	268.58	320.47	20.48	20.70	20.66	0
	- Freshwater ($\leq 1,000$ mg/L TDS)	Million liters	118.17	286.53	238.01	318.83	20.48	11.59	0	0
	- Other water ($> 1,000$ mg/L TDS)	Million liters	15.38	101.86	11.34	1.64	0	9.12	1.42	0
	Total volume of water from third-party water	Million liters	5,406.22	3,672.53	4,311.76	4,873.26	2,591.80	2,366.02	2,412.17	2.40
	- Freshwater ($\leq 1,000$ mg/L TDS)	Million liters	5,272.28	3,614.13	3,951.17	4,872.89	2,591.80	2,366.02	2,412.17	2.40
	- Other water ($> 1,000$ mg/L TDS)	Million liters	133.94	58.4	360.58	0.38	0	0	0	0

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
	Total volume of water from produced water		Million liters	0	0	747.63	0	0	0	230.40	0
	- Freshwater ($\leq 1,000$ mg/L TDS)		Million liters	0	0	647.63	0	0	0	230.40	0
	- Other water ($> 1,000$ mg/L TDS)		Million liters	0	0	100.00	0	0	0	0	0
	Total volume of water from third-party water	Surface water	Million liters					2,591.80	2,366.02	2,412.17	2.40
		Groundwater	Million liters					0	0	0	0
	Total volume of water		Million liters	13,209.11	11,585.58	14,744.50	15,051.74	3,361.50	6,296.04	7,393.18	382.13
Wood substitute	Total volume of water from surface water		Million liters	0	0	0	0	0	0	0	0
	- Freshwater ($\leq 1,000$ mg/L TDS)		Million liters	0	0	0	0	0	0	0	0

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
materials business	- Other water (> 1,000 mg/L TDS)		Million liters	0	0	0	0	0	0	0	0
	Total volume of water from groundwater		Million liters	814.52	843.99	939.15	1,070.44	0	0	0	0
	- Freshwater ($\leq$ 1,000 mg/L TDS)		Million liters	814.52	843.99	939.15	1,070.44	0	0	0	0
	- Other water (> 1,000 mg/L TDS)		Million liters	0	0	0	0	0	0	0	0
	Total volume of water from third-party water		Million liters	6.82	12.19	13.89	20.96	6.82	4.01	3.86	7.93
	- Freshwater ($\leq$ 1,000 mg/L TDS)		Million liters	6.82	12.19	13.89	20.96	6.82	4.01	3.86	7.93
	- Other water (> 1,000 mg/L TDS)		Million liters	0	0	0	0	0	0	0	0
	Total volume of water from	Surface water	Million liters					6.82	3.86	3.86	7.93
		Groundwater	Million liters					0	0	3.86	0

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
	third-party water										
	Total volume of water		Million liters	821.35	856.18	953.04	1,091.40	6.82	4.01	3.86	7.93
Fertilizer business	Total volume of water from surface water		Million liters	0	0	0	0	0	0	0	0
	- Freshwater ($\leq 1,000$ mg/L TDS)		Million liters	0	0	0	0	0	0	0	0
	- Other water ($> 1,000$ mg/L TDS)		Million liters	0	0	0	0	0	0	0	0
	Total volume of water from groundwater		Million liters	5.45	9.04	5.35	4.48	0	9.04	5.35	0
	- Freshwater ($\leq 1,000$ mg/L TDS)		Million liters	5.45	9.04	5.35	4.48	0	9.04	5.35	0
	- Other water ($> 1,000$ mg/L TDS)		Million liters	0	0	0	0	0	0	0	0
	Total volume of water from third-party water		Million liters	10.50	13.44	16.36	15.26	10.50	13.44	16.36	12.33

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
	- Freshwater ($\leq 1,000$ mg/L TDS)		Million liters	10.50	13.44	7.47	9.17	10.50	13.44	7.47	6.24
	- Other water ($> 1,000$ mg/L TDS)		Million liters	0	0	8.89	6.09	0	0	8.89	6.09
	Total volume of water from third-party water	Surface water	Million liters					10.50	7.47	5.35	0
		Ground water	Million liters					0	0	0	0
	Total volume of water		Million liters	15.95	22.47	21.71	19.74	10.50	22.47	21.71	12.33
Logistics and warehouse business	Total volume of water from surface water		Million liters	0	0	0	0	0	0	0	0
	- Freshwater ($\leq 1,000$ mg/L TDS)		Million liters	0	0	0	0	0	0	0	0
	- Other water ($> 1,000$ mg/L TDS)		Million liters	0	0	0	0	0	0	0	0

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
	Total volume of water from groundwater		Million liters	0	0	0	0	0	0	0	0
	- Freshwater ($\leq 1,000$ mg/L TDS)		Million liters	0	0	0	0	0	0	0	0
	- Other water ($> 1,000$ mg/L TDS)		Million liters	0	0	0	0	0	0	0	0
	Total volume of water from third-party water		Million liters	26.90	21.76	22.96	55.85	0	6.81	22.96	10.33
	- Freshwater ($\leq 1,000$ mg/L TDS)		Million liters	26.90	21.76	22.96	55.85	0	6.81	22.96	10.33
	- Other water ($> 1,000$ mg/L TDS)		Million liters	0	0	0	0	0	0	0	0
	Total volume of water from third-party water	Surface water	Million liters					0	6.81	22.96	10.33
		Groundwater	Million liters					0	0	0	0
	Total volume of water		Million liters	26.90	21.76	22.96	55.83	0	6.81	22.96	10.33

Business Unit	Data	Unit	All areas				Area with Water Stress			
			2022	2023	2024	2025	2022	2023	2024	2025
Other business	Total volume of water from surface water	Million liters	7.14	649.50	288.97	1,890.75	0	649.50	288.97	10.59
	- Freshwater ($\leq 1,000$ mg/L TDS)	Million liters	7.14	649.50	288.97	1,890.75	0	649.50	288.97	10.59
	- Other water ($> 1,000$ mg/L TDS)	Million liters	0	0	0	0	0	0	0	0
	Total volume of water from groundwater	Million liters	7.82	210.65	217.31	9.71	0	210.65	217.31	0
	- Freshwater ($\leq 1,000$ mg/L TDS)	Million liters	7.82	210.65	26.24	7.78	0	210.65	26.24	0
	- Other water ($> 1,000$ mg/L TDS)	Million liters	0	0	191.07	1.93	0	0	191.07	0
	Total volume of water from third-party water	Million liters	5.51	81.22	71.21	2,442.86	0	81.22	71.21	1.58
	- Freshwater ($\leq 1,000$ mg/L TDS)	Million liters	5.51	81.22	71.16	113.18	0	81.22	71.16	1.58
	- Other water ($> 1,000$ mg/L TDS)	Million liters	0	0	0.05	2,329.68	0	0	0.05	0

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
	Total volume of water from third-party water	Surface water	Million liters					0	81.22	71.16	1.58
		Groundwater	Million liters					0	0	0	0
	Total volume of water		Million liters	20.47	941.37	577.48	4,343.31	0	941.37	577.48	12.17
GRI 303-4 (2018) Water Discharge											
Mitr Phol Group	Volume of water discharge by destination	Volume of water discharge to surface water	Million liters	10.05	37.71	213.86	1,551.42				
		Volume of water discharge to groundwater	Million liters	0	0	0	0				

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
		Volume of water discharge to third-party water	Million liters	17.29	63.27	30.35	29.01				
		Total volume of water discharge	Million liters	27.35	100.98	244.21	1,580.43				
	Volume of water discharge to outside organization	Freshwater ($\leq 1,000$ mg/L TDS)	Million liters	27.35	97.04	217.86	1,061.19	12.34	73.31	73.31	361.32
		Other water ($> 1,000$ mg/L TDS)	Million liters	0	3.94	26.36	519.24	0	4.61	4.61	496.69
Farming business	Volume of water discharge	Volume of water discharge to	Million liters	0	0	0	0				

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
	by destination	surface water									
		Volume of water discharge to groundwater	Million liters	0	0	0	0				
		Volume of water discharge to third-party water	Million liters	0	0	0	0				
		Total volume of water discharge	Million liters	0	0	0	0				
	Volume of water discharge to	Freshwater (≤ 1,000 mg/L TDS)	Million liters	0	0	0	0	0	0	0	0

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
	outside organization	Other water (> 1,000 mg/L TDS)	Million liters	0	0	0	0	0	0	0	0
Sugar business	Volume of water discharge by destination	Volume of water discharge to surface water	Million liters	0	0	0	640.99				
		Volume of water discharge to groundwater	Million liters	0	0	0	0				
		Volume of water discharge to third-party water	Million liters	0	898.76	912.17	2,665.77				

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
		Total volume of water discharge	Million liters	0	898.76	912.17	3,306.76				
	Volume of water discharge to outside organization	Freshwater (≤ 1,000 mg/L TDS)	Million liters	0	898.76	912.17	640.99	0	912.17	912.17	332.83
		Other water (> 1,000 mg/L TDS)	Million liters	0	0	0	2,665.77	0	0	0	492.75
Energy business	Volume of water discharge by destination	Volume of water discharge to surface water	Million liters	0	0	148.66	305.24				
		Volume of water discharge to groundwater	Million liters	0	0	0	0				

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
		Volume of water discharge to third-party water	Million liters	286.70	256.19	224.81	382.72				
		Total volume of water discharge	Million liters	286.70	256.19	373.47	687.96				
	Volume of water discharge to outside organization	Freshwater ($\leq 1,000$ mg/L TDS)	Million liters	286.70	6.63	355.26	687.96	285.98	224.81	224.81	432.80
		Other water ($> 1,000$ mg/L TDS)	Million liters	0	249.56	18.20	0	0	0	0	0
Wood substitute	Volume of water discharge	Volume of water discharge to	Million liters	0	22.94	17.63	27.18				

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
Materials business	by destination	surface water									
		Volume of water discharge to groundwater	Million liters	0	0	0	0				
		Volume of water discharge to third-party water	Million liters	3.94	3.11	0	15.74				
		Total volume of water discharge	Million liters	3.94	26.05	17.63	42.80				
	Volume of water discharge to	Freshwater ($\leq 1,000$ mg/L TDS)	Million liters	3.94	26.05	14.09	21.78	3.94	0	0	3.11

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
	outside organization	Other water (> 1,000 mg/L TDS)	Million liters	0	0	3.54	21.02	0	0	0	0
Fertilizer business	Volume of water discharge by destination	Volume of water discharge to surface water	Million liters	0	0	0	2.35				
		Volume of water discharge to groundwater	Million liters	0	0	0	0				
		Volume of water discharge to third-party water	Million liters	8.4	9.69	9.28	13.05				

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
		Total volume of water discharge	Million liters	8.4	9.69	9.28	15.40				
	Volume of water discharge to outside organization	Freshwater (≤ 1,000 mg/L TDS)	Million liters	8.4	5.75	4.66	6.44	8.4	5.75	4.66	5.75
		Other water (> 1,000 mg/L TDS)	Million liters	0	3.94	4.61	8.96	0	3.94	4.61	3.94
Logistics and Warehouse business	Volume of water discharge by destination	Volume of water discharge to surface water	Million liters	6.14	5.45	4.27	44.68				
		Volume of water discharge to groundwater	Million liters	0	0	0	0				

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
		Volume of water discharge to third-party water	Million liters	0.01	11.96	14.09	0				
		Total volume of water discharge	Million liters	6.15	17.41	18.36	44.68				
	Volume of water discharge to outside organization	Freshwater ($\leq 1,000$ mg/L TDS)	Million liters	6.15	17.41	18.36	38.36	0	17.41	18.36	5.75
		Other water ($> 1,000$ mg/L TDS)	Million liters	0	0	0	6.32	0	0	0	3.94
Other business	Volume of water discharge	Volume of water discharge to	Million liters	3.92	9.33	43.31	530.98				

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
	by destination	surface water									
		Volume of water discharge to groundwater	Million liters	0	0	0	0				
		Volume of water discharge to third-party water	Million liters	4.22	31.88	1.24	1,634.96				
		Total volume of water discharge	Million liters	8.14	41.20	44.54	2,165.95				
	Volume of water discharge to	Freshwater (≤ 1,000 mg/L TDS)	Million liters	8.14	41.20	44.54	192.32	0	41.20	44.54	4.01

Business Unit	Data		Unit	All areas				Area with Water Stress			
				2022	2023	2024	2025	2022	2023	2024	2025
	outside organization	Other water (> 1,000 mg/L TDS)	Million liters	0	0	0	1,973.64	0	0	0	0
GRI 303-5 (2018) Water Consumption											
Mitr Phol Group	Total water consumption		Million liters	29,078.73	22,778.82	30,680.20	35,378.12	6,935.27	16,096.52	20,465.28	2,003.32
Farming business	Total water consumption		Million liters	7,176.56	3,503.68	5,709.46	7,013.31	275.13	3,503.68	5,709.46	0
Sugar business	Total water consumption		Million liters	13,602.51	13,818.61	15,335.78	18,664.77	6,119.61	10,610.94	10,280.67	1,612.04
Energy business	Total water consumption		Million liters	13,049.90	11,313.81	14,371.04	14,363.78	3,075.52	6,040.11	7,168.37	381.91
Wood substitute materials business	Total water consumption		Million liters	835.60	830.13	935.41	1,048.48	2.89	0.90	3.86	7.82

Business Unit	Data	Unit	All areas				Area with Water Stress			
			2022	2023	2024	2025	2022	2023	2024	2025
Fertilizer business	Total water consumption	Million liters	7.55	12.78	12.43	4.34	2.10	12.78	12.43	0
Logistics and warehouse business	Total water consumption	Million liters	20.75	4.35	4.59	11.17	0	1.36	4.59	2.07
Other business	Total water consumption	Million liters	12.33	900.16	539.94	2,177.37	3.57	900.16	539.94	0.21
CSA 2.5.2-2.5.3 Water Consumption & Water Consumption in Water-Stressed Area										
Mitr Phol Group	A. Water withdrawal (excluding saltwater)	Million m ³	29.39	27.69	33.42	36.96	6.04	14.59	14.39	2.04
	- Fresh surface water	Million m ³	21.48	23.76	29.12	31.91	5.88	13.60	13.37	1.89
	- Groundwater	Million m ³	4.89	2.09	2.05	2.13	0.07	0.83	0.78	0
	- Produced water	Million m ³	2.90	1.71	2.00	2.72				0.11
	- Third party sources	Million m ³	0.12	0.12	0.25	0.20	0.09	0.16	0.24	0.04
	B. Water discharge (excluding saltwater)	Million m ³	0.03	0.10	0.24	1.58	0.01	0.07	0.08	0
	Total net freshwater consumption (A-B)	Million m ³	29.36	27.59	33.18	35.38	6.03	14.53	14.31	2.04

Business Unit	Data	Unit	All areas				Area with Water Stress			
			2022	2023	2024	2025	2022	2023	2024	2025
	Target of total net freshwater consumption	Million m ³		28.19 (Reduced 4% from 2022)	27.01 (Reduced 8% from 2022)	25.84 (Reduced 12% from 2022)		5.79 (Reduced 4% from 2022)	5.55 (Reduced 8% from 2022)	5.31 (Reduced 12% from 2022)
	Total net freshwater consumption per revenue	Million m ³ / Million baht	0.00021	0.00018	0.00021	0.00029	0.00004	0.00010	0.00009	0.00002
	Data coverage	% of revenue	100	100	100	100	100	100	100	100

Remarks:

1. From 2022 to 2024, the AQUEDUCT Water Risk Atlas was used to evaluate water-stressed areas. Starting in 2025, the WWF Water Risk Filter will be used for the assessment instead.
2. The sugar business consumes a significant volume of water, as treated wastewater is not discharged outside the factory boundary. Instead, the company reuses treated wastewater within its operations for various purposes, including bagasse pile spraying, wetting conveyor belts for boiler ash handling, dust suppression in open areas, watering sugarcane truck parking areas, and landscape irrigation.

Water Discharge Quality by Business Unit

Business Unit	Water Quality	Standard Level	Average of Water Discharge Quality			
			2022	2023	2024	2025
GRI 303-4 (2018) Water Discharge Quality						
Farming business	BOD (mg/l)	-	NR	NR	NR	NR
	COD (mg/l)	-	NR	NR	NR	NR
Sugar business	BOD (mg/l)	-	NR	NR	NR	NR
	COD (mg/l)	-	NR	NR	NR	NR
Energy business	BOD (mg/l)	20	12.17	2.28	2.66	9.48
	COD (mg/l)	120	51.88	28.88	12.58	71.80
Wood substitute materials business	BOD (mg/l)	20	6.51	5.79	4.78	16.40
	COD (mg/l)	120	45.97	61.65	51.83	82.62
Fertilizer business	BOD (mg/l)	500*	34.40	35.62	19.22	16.13
	COD (mg/l)	750*	137.58	128.75	114.25	71.25
Logistics and warehouse business	BOD (mg/l)	20	2.32	5.34	1.68	5.59
	COD (mg/l)	120	39.39	44.77	51.46	38.56
Other business	BOD (mg/l)	20	-	23.45	13.72	14.63
	COD (mg/l)	120	46.20	55.28	37,64	57.21

Remark:

- Standards are based on the *Ministry of Industry Notification B.E. 2560 (2017)* on factory wastewater discharge control.
- For the fertilizer business, standards follow *IEAT Notification No. 76/2017* on wastewater discharge to the central treatment system.

Greenhouse Gas Emissions

Business Unit	Data	Unit	2022	2023	2024	2025
GRI 305-1 Direct (Scope 1) GHG Emissions						
Mitr Phol Group	Direct GHG emissions (Scope 1)	Tons CO ₂ e	793,166.89	349,568.60	394,861.87	846,930.93
	Biogenic CO ₂ emissions	Tons CO ₂	7,908,479.27	8,777,378.23	9,233,308.35	8,765,759.51
	Target of direct GHG emissions (Scope 1)	Tons CO ₂ e		761,440.21 (Reduced 4% from 2022)	729,713.54 (Reduced 8% from 2022)	697,986.86 (Reduced 12% from 2022)
	Data coverage	% of revenue	100	100	100	100
Farming business	Direct GHG emissions (Scope 1)	Tons CO ₂ e	2,303.85	2,404.20	2,454.72	2,314.43
	Biogenic CO ₂ emissions	Tons CO ₂	0	0	0	8.44
Sugar business	Direct GHG emissions (Scope 1)	Tons CO ₂ e	65,068.11	72,662.61	77,739.20	68,311.00
	Biogenic CO ₂ emissions	Tons CO ₂	337,820.99	403,385.41	397,315.71	414,899.52
Energy business	Direct GHG emissions (Scope 1)	Tons CO ₂ e	698,994.57	221,333.90	258,763.01	702,553.43
	Biogenic CO ₂ emissions	Tons CO ₂	6,997,827.02	7,866,072.41	8,279,826.72	7,566,267.75

Business Unit	Data	Unit	2022	2023	2024	2025
Wood substitute materials business	Direct GHG emissions (Scope 1)	Tons CO ₂ e	20,313.43	17,565.38	20,087.12	22,618.42
	Biogenic CO ₂ emissions	Tons CO ₂	569,729.05	493,517.57	547,335.07	773,964.61
Fertilizer business	Direct GHG emissions (Scope 1)	Tons CO ₂ e	3,032.21	14,345.82	581.03	586.05
	Biogenic CO ₂ emissions	Tons CO ₂	3,102.22	3,343.81	2,554.94	3,391.82
Logistics and warehouse business	Direct GHG emissions (Scope 1)	Tons CO ₂ e	1,389.25	308.64	994.37	1,439.70
	Biogenic CO ₂ emissions	Tons CO ₂	0	0	0	2.87
Other business	Direct GHG emissions (Scope 1)	Tons CO ₂ e	2,065.46	21,048.05	31,074.89	46,187.16
	Biogenic CO ₂ emissions	Tons CO ₂	0	11,059.04	6,600.96	7,585.68
GRI 305-2 Energy Indirect (Scope 2) GHG Emissions						
Mitr Phol Group	Market-based energy indirect GHG emissions (Scope 2)	Tons CO ₂ e	81,182.59	83,017.38	75,001.66	48,370.45
	Target of market-based energy indirect GHG emissions (Scope 2)	Tons CO ₂ e		77,935.29 (Reduced 4% from 2022)	74,687.98 (Reduced 8% from 2022)	71,440.68 (Reduced 12% from 2022)

Business Unit	Data	Unit	2022	2023	2024	2025
	Location-based energy indirect GHG emissions (Scope 2)	Tons CO ₂ e	81,182.59	83,017.38	75,001.66	48,370.45
	Target of location-based energy indirect GHG emissions (Scope 2)	Tons CO ₂ e		77,935.29 (Reduced 4% from 2022)	74,687.98 (Reduced 8% from 2022)	71,440.68 (Reduced 12% from 2022)
	Data coverage for location-based and market based	% of revenue	100	100	100	100
Farming business	Energy indirect GHG emissions (Scope 2)	Tons CO ₂ e	274.82	470.47	464.39	316.83
Sugar business	Energy indirect GHG emissions (Scope 2)	Tons CO ₂ e	110,902.62	104,686.65	73,632.50	76,630.44
Energy business	Energy indirect GHG emissions (Scope 2)	Tons CO ₂ e	13,594.59	6,212.93	14,312.16	7,287.41
Wood substitute materials business	Energy indirect GHG emissions (Scope 2)	Tons CO ₂ e	64,183.21	59,973.37	43,901.28	24,774.28
Fertilizer business	Energy indirect GHG emissions (Scope 2)	Tons CO ₂ e	2,123.65	1,437.08	1,558.77	1,518.24

Business Unit	Data	Unit	2022	2023	2024	2025
Logistics and warehouse business	Energy indirect GHG emissions (Scope 2)	Tons CO ₂ e	1,238.29	1,269.46	1,104.97	1,371.06
Other business	Energy indirect GHG emissions (Scope 2)	Tons CO ₂ e	656.56	10,840.95	8,696.90	8,492.71
GRI 305-3 Other Indirect (Scope 3) GHG Emissions						
Mitr Phol Group	Other indirect GHG emissions (Scope 3)	Tons CO ₂ e	1,428,355.05	1,806,612.68	1,624,433.19	1,539,327.14
	Target of other indirect GHG emissions (Scope 3)	Tons CO ₂ e		1,399,788 (Reduced 2% from 2022)	1,371,220.85 (Reduced 4% from 2022)	1,342,653.75 (Reduced 6% from 2022)
	1. Purchased goods and services	Tons CO ₂ e	988,301.45	1,339,971.05	1,051,915.03	1,086,977.56
	2. Capital goods	Tons CO ₂ e	-	-	4.19	2.36
	3. Fuel and energy related activities (not included in Scope 1 or 2)	Tons CO ₂ e	11,907.06	21,596.94	60,709.56	14,099.39

Business Unit	Data	Unit	2022	2023	2024	2025
	4. Upstream transportation and distribution	Tons CO ₂ e	136,402.65	150,855.61	201,405.43	226,767.61
	5. Waste generated in operations	Tons CO ₂ e	1,017.04	1,140.49	3,224.51	6,801.20
	6. Business travel	Tons CO ₂ e	269.91	502.94	604.12	643.87
	7. Employee commuting	Tons CO ₂ e	8,968.52	6,713.55	4,782.95	3,486.60
	8. Upstream leased assets	Tons CO ₂ e	-	-	973.99	630.60
	9. Downstream transportation and distribution	Tons CO ₂ e	169,047.04	121,242.93	112,644.56	36,848.07
	10. Processing of sold products	Tons CO ₂ e	NR	NR	NR	NR
	11. Use of sold products	Tons CO ₂ e	110,001.46	163,356.49	185,021.45	158,999.37
	12. End of life treatment of sold products	Tons CO ₂ e	2,156.25	1,232.68	2,442.64	3,692.55
	13. Downstream leased assets	Tons CO ₂ e	283.72	-	704.76	377.97
	14. Franchises	Tons CO ₂ e	NR	NR	NR	NR

Business Unit	Data	Unit	2022	2023	2024	2025
	15. Investments	Tons CO ₂ e	-	-	-	-
Farming business	Other indirect GHG emissions (Scope 3)	Tons CO ₂ e	3,639.83	3,514.80	5,461.22	4,252.36
Sugar business	Other indirect GHG emissions (Scope 3)	Tons CO ₂ e	789,968.92	1,065,932.65	928,895.53	822,652.95
Energy business	Other indirect GHG emissions (Scope 3)	Tons CO ₂ e	177,142.12	194,270.59	208,848.51	167,634.73
Wood substitute business	Other indirect GHG emissions (Scope 3)	Tons CO ₂ e	280,861.64	253,522.63	218,157.08	330,710.55
Fertilizer business	Other indirect GHG emissions (Scope 3)	Tons CO ₂ e	231,572.12	305,617.56	309,211.54	273,768.37
Logistics and warehouse business	Other indirect GHG emissions (Scope 3)	Tons CO ₂ e	31,337.66	37,580.76	89,296.54	27,183.14
Other business	Other indirect GHG emissions (Scope 3)	Tons CO ₂ e	6,815.74	27,767.78	19,188.50	23,476.32

Business Unit	Data	Unit	2022	2023	2024	2025
GHG Emissions Intensity						
Mitr Phol Group	Direct GHG emissions (Scope 1) per revenue	Tons CO ₂ e/Million baht	5.65	2.30	2.48	6.84
	Energy indirect GHG emissions (Scope 2) per revenue	Tons CO ₂ e/Million baht	0.58	0.55	0.47	0.39
	Other indirect GHG emissions (Scope 3) per revenue	Tons CO ₂ e/Million baht	10.18	11.86	10.20	12.43

Remarks:

1. The GHG emissions report covers CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, and NF₃ calculated and illustrated in the form of carbon dioxide equivalent (CO₂e), using Global Warming Potential (GWP) based on IPCC AR5.
2. Reporting scope of GHG emissions is operational control.
3. The emission factors used are referenced from the Thailand Greenhouse Gas Management Organization (Public Organization), IPCC 2006, and the Thai National LCI database.
4. The reporting of Scope 2 GHG emissions for Mitr Phol Group follows the location-based method, with the data being identical to that of the market-based method.
5. Scope 3 GHG emissions were gathered and calculated in accordance with the Greenhouse Gas Protocol's Corporate Value Chain (Scope 3) Accounting and Reporting Standard.
6. “-” Scope 3 GHG emissions cannot be calculated due to the unavailability of emission factor data from our suppliers and the limitation of data collection.
7. Scope 1 and Scope 2 emissions for 2025 were calculated using the latest TGO emission factors published in January 2026. Emissions for 2022–2024 were calculated using the previously applicable TGO emission factors.

Air Emissions

Business Unit	Data	Unit	2022	2023	2024	2025
GRI 305-7 (2016) Nitrogen Oxides (NO_x), Sulfur Oxides (SO_x), and Other Significant Air Emissions						
Mitr Phol Group	NO _x	Tons	NA	572.32	774.22	735.98
	SO _x	Tons	NA	82.44	60.05	62.66
	CO	Tons	NA	313.28	406.60	685.37
	TSP	Tons	NA	425.92	477.11	429.24
	VOCs	Tons	NA	0.52	0.29	0.77
Sugar business	NO _x	Tons	NA	25.98	21.21	36.27
	SO _x	Tons	NA	1.55	2.84	1.90
	CO	Tons	NA	25.09	32.55	52.04
	TSP	Tons	NA	30.96	63.80	38.82
Energy business	NO _x	Tons	NA	222.70	202.88	275.13
	SO _x	Tons	NA	6.51	3.40	7.98
	CO	Tons	NA	247.63	329.05	563.18
	TSP	Tons	NA	176.50	28.03	46.22
	VOCs	Tons	NA	0.52	0.05	0.77
Wood substitute materials business	NO _x	Tons	NA	322.65	549.65	424.06
	SO _x	Tons	NA	70.07	52.37	52.39

Business Unit	Data	Unit	2022	2023	2024	2025
	CO	Tons	NA	39.70	43.88	69.92
	TSP	Tons	NA	215.31	383.17	331.60
Fertilizer business	NO _x	Tons	NA	0.68	0.26	0.47
	SO _x	Tons	NA	4.26	0.04	0.03
	CO	Tons	NA	0.77	0.44	0.09
	TSP	Tons	NA	2.63	0.50	0.64
Other business	NO _x	Tons	NA	0.31	0.23	0.05
	SO _x	Tons	NA	0.06	1.40	0.36
	CO	Tons	NA	0.09	0.67	0.13
	TSP	Tons	NA	0.53	1.60	11.97

Remarks:

1. The farming business, as well as the logistics and warehouse business, do not have air pollution data as they do not have air emission stacks.

Waste Management

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
GRI 306-3 (2020) Waste Generated						
Mitr Phol Group	Total weight of waste generated	Tons	3,090,052.18	2,549,167.73	2,215,539.21	2,622,757.81
	Total weight of hazardous waste generated	Tons	7,603.70	13,597.27	2,599.52	1,981.38
	Total weight of non-hazardous waste generated	Tons	3,082,448.49	2,535,570.45	2,212,939.69	2,620,776.43
Farming business	Total weight of waste generated	Tons	33,595.30	19.50	13.34	23.82
	Total weight of hazardous waste generated	Tons	3.63	3.79	4.10	7.08
	Total weight of non-hazardous waste generated	Tons	33,591.67	15.71	9.24	16.74
Sugar business	Total weight of waste generated	Tons	5,110,065.97	5,544,015.70	4,516,732.83	5,255,900.15
	Total weight of hazardous waste generated	Tons	4,377.34	404.84	571.63	495.89
	Total weight of non-hazardous waste generated	Tons	5,105,688.64	5,543,610.86	4,516,161.20	5,255,404.26
Energy business	Total weight of waste generated	Tons	2,656,608.12	3,083,156.81	2,631,812.79	2,806,720.29
	Total weight of hazardous waste generated	Tons	2,832.83	12,751.70	1,688.63	563.39
	Total weight of non-hazardous waste generated	Tons	2,653,775.29	3,070,405.10	2,630,124.16	2,806,156.90
Wood substitute materials business	Total weight of waste generated	Tons	23,659.07	12,923.32	19,349.31	9,170.84
	Total weight of hazardous waste generated	Tons	368.56	389.72	292.45	489.03
	Total weight of non-hazardous waste generated	Tons	23,290.51	12,533.60	19,056.86	8,681.81

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
Fertilizer business	Total weight of waste generated	Tons	114.41	104.21	135.94	107.54
	Total weight of hazardous waste generated	Tons	14.21	3.06	38.31	106.00
	Total weight of non-hazardous waste generated	Tons	100.20	101.15	97.63	1.54
Logistics and warehouse business	Total weight of waste generated	Tons	224.33	103.40	217.68	1,747.29
	Total weight of hazardous waste generated	Tons	7.13	34.42	1.42	314.37
	Total weight of non-hazardous waste generated	Tons	217.20	68.98	232.46	1,432.92
Other business	Total weight of waste generated	Tons	217.58	145,510.19	3,616.10	18,609.21
	Total weight of hazardous waste generated	Tons	0	9.75	2.98	5.64
	Total weight of non-hazardous waste generated	Tons	217.58	145,500.44	3,613.12	18,603.58
GRI 306-4 (2020) Waste Diverted from Disposal						
Mitr Phol Group	Total weight of waste diverted from disposal	Tons	2,089,874.73	2,308,402.94	2,344,773.42	2,034,143.70
	Total weight of hazardous waste diverted from disposal	Tons	3,692.33	1,589.81	58.31	1.96
	Onsite					
	- Reuse	Tons	1.80	0	0	0
	- Recycling	Tons	0	0	0.06	0
	- Other recovery operations	Tons	0	0	0	0
	Offsite					
	- Reuse	Tons	3.80	3.48	46.76	0

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Recycling	Tons	2,881.86	677.33	2.60	0
	- Other recovery operations	Tons	804.87	909	8.89	1.96
	Total weight of non-hazardous waste diverted from disposal	Tons	2,086,182.40	2,306,813.13	2,344,715.12	2,034,141.74
	Onsite					
	- Reuse	Tons	0	1,966.68	9,180.00	4.83
	- Recycling	Tons	0	0	0	37.21
	- Composting	Tons	146,644.04	331,768.36	346,457.05	242,199.02
	- Other recovery operations	Tons	26.80	0	110.09	8,164.63
	Offsite					
	- Reuse	Tons	0	19.02	60.00	0
	- Recycling	Tons	629,249.83	294,950.07	204,697.71	350,007.27
	- Composting	Tons	914,024.99	1,621,889.18	1,355,262.33	1,431,183.51
	- Other recovery operations	Tons	396,236.74	56,219.82	428,947.94	2,545.27
Farming business	Total weight of waste diverted from disposal	Tons	0	6.70	3.89	1.96
	Total weight of hazardous waste diverted from disposal	Tons	0	0	3.89	1.96
	Onsite					
	- Reuse	Tons	0	0	0	0

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Recycling	Tons	0	0	0	0
	- Other recovery operations	Tons	0	0	0	0
	Offsite					
	- Reuse	Tons	0	0	3.89	0
	- Recycling	Tons	0	0	0	0
	- Other recovery operations	Tons	0	0	0	1.96
	Total weight of non-hazardous waste diverted from disposal	Tons	0	6.70	0	0
	Onsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	0	0	0	0
	- Composting	Tons	0	0	0	0
	- Other recovery operations	Tons	0	0	0	0
	Offsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	0	6.70	0	0
	- Composting	Tons	0	0	0	0
	- Other recovery operations	Tons	0	0	0	0

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
Sugar business	Total weight of waste diverted from disposal	Tons	1,357,872.03	724,139.02	625,920.97	1,596,320.97
	Total weight of hazardous waste diverted from disposal	Tons	303.11	271.65	2.53	0
	Onsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	0	0	0	0
	- Other recovery operations	Tons	0	0	0	0
	Offsite					
	- Reuse	Tons	3.80	3.48	2.53	0
	- Recycling	Tons	286.67	268.17	0	0
	- Other recovery operations	Tons	12.64	0	0	0
	Total weight of non-hazardous waste diverted from disposal	Tons	1,357,568.93	723,867.37	625,918.44	1,596,322.64
	Onsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	0	0	0	0
	- Composting	Tons	137,295.71	113,213.05	159,921.99	137,607.39
	- Other recovery operations	Tons	19.80	0	0	8,054.54

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	Offsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	628,648.94	282,347.38	192,627.15	775,932.75
	- Composting	Tons	590,221.47	327,507.76	335,294.29	673,311.67
	- Other recovery operations	Tons	1,383.01	799.18	1,557.82	1,416.30
Energy business	Total weight of waste diverted from disposal	Tons	1,713,362.98	2,070,878.92	2,643,537.54	2,219,404.55
	Total weight of hazardous waste diverted from disposal	Tons	3,295.38	922.59	31.18	0
	Onsite					
	- Reuse	Tons	1.80	0	0	0
	- Recycling	Tons	0	0	0	0
	- Other recovery operations	Tons	0	0	0	0
	Offsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	2,505.14	22.59	31.18	0
	- Other recovery operations	Tons	788.44	900	0	0
	Total weight of non-hazardous waste diverted from disposal	Tons	1,710,067.60	2,069,956.33	2,643,506.36	2,219,404.55
	Onsite					

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Reuse	Tons	0	0	0	4.83
	- Recycling	Tons	0	0	0	37.21
	- Composting	Tons	71,771.65	218,555.31	292,665.66	124,596.88
	- Other recovery operations	Tons	7	0	0	0
	Offsite					
	- Reuse	Tons	0	19.02	0	0
	- Recycling	Tons	582.65	12,165.23	11,511.55	346,703.21
	- Composting	Tons	1,243,382.72	1,784,311.67	2,019,489.92	1,747,573.88
	- Other recovery operations	Tons	394,323.58	54,905.10	426,944.21	488.54
Wood substitute materials business	Total weight of waste diverted from disposal	Tons	23,287.53	12,770.01	16,878.10	18,785.01
	Total weight of hazardous waste diverted from disposal	Tons	86.72	389.71	292.45	0
	Onsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	0	0	0	0
	- Other recovery operations	Tons	0	0	0	0
	Offsite					
	- Reuse	Tons	0	0	44.23	0
	- Recycling	Tons	82.93	386.06	248.16	0

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Other recovery operations	Tons	3.79	3.66	0	0
	Total weight of non-hazardous waste diverted from disposal	Tons	23,200.81	12,380.29	16,585.65	18,785.01
	Onsite					
	- Reuse	Tons	0	1,966.68	9,180.00	0
	- Recycling	Tons	0	0	0	0
	- Composting	Tons	0	0	965.26	10,877.00
	- Other recovery operations	Tons	0	0	110.09	110.09
	Offsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	8.8	380.70	546.34	960.53
	- Composting	Tons	22,725.15	9,690.34	5,488.31	6,293.25
	- Other recovery operations	Tons	466.86	342.56	295.65	544.14
Fertilizer business	Total weight of waste diverted from disposal	Tons	62.29	71.19	65.86	0
	Total weight of hazardous waste diverted from disposal	Tons	0	0.52	5.86	0
	Onsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	0	0	0	0

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Other recovery operations	Tons	0	0	0	0
	Offsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	0	0.52	5.86	0
	- Other recovery operations	Tons	0	0	0	0
	Total weight of non-hazardous waste diverted from disposal	Tons	62.29	70.67	60.00	0
	Onsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	0	0	0	0
	- Composting	Tons	0	0	0	0
	- Other recovery operations	Tons	0	0	0	0
	Offsite					
	- Reuse	Tons	0	0	60.00	0
	- Recycling	Tons	0	0	0	0
	- Composting	Tons	0	0	0	0
	- Other recovery operations	Tons	62.29	70.67	0	0

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
Logistics and warehouse business	Total weight of waste diverted from disposal	Tons	7.12	48.23	101.51	502.23
	Total weight of hazardous waste diverted from disposal	Tons	7.12	0.82	5.00	0
	Onsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	0	0	0	0
	- Other recovery operations	Tons	0	0	0	0
	Offsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	7.12	0	0	0
	- Other recovery operations	Tons	0	0.82	5.00	0
	Total weight of non-hazardous waste diverted from disposal	Tons	0	47.41	96.29	502.23
	Onsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	0	0	0	0
	- Composting	Tons	0	0	0	0
	- Other recovery operations	Tons	0	0	0	0
	Offsite					

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	0	0	0	405.94
	- Composting	Tons	0	0	96.29	0
	- Other recovery operations	Tons	0	47.41	0	96.29
Other business	Total weight of waste diverted from disposal	Tons	10.44	109.47	3,430.97	18,501.28
	Total weight of hazardous waste diverted from disposal	Tons	0	4.52	0	0
	Onsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	0	0	0	0
	- Other recovery operations	Tons	0	0	0	0
	Offsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	0	0	0	0
	- Other recovery operations	Tons	0	4.52	0	0
	Total weight of non-hazardous waste diverted from disposal	Tons	10.44	104.95	3,430.97	18,501.28
	Onsite					
	- Reuse	Tons	0	0	0	0

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Recycling	Tons	0	0	0	0
	- Composting	Tons	0	0	9.12	16.38
	- Other recovery operations	Tons	0	0	0	0
	Offsite					
	- Reuse	Tons	0	0	0	0
	- Recycling	Tons	9.44	50.05	11.04	114.40
	- Composting	Tons	0	0	3,355.21	18,370.50
	- Other recovery operations	Tons	1	54.90	53.97	0
Mitr Phol Group	Total weight of waste directed to disposal	Tons	27,130.96	13,986.02	6,031.69	4,557.02
	Total weight of hazardous waste directed to disposal	Tons	4,724.79	274.42	3,618.14	1,330.27
	Onsite					
	- Incineration with energy recovery	Tons	0.30	0	1,539.55	0
	- Incineration without energy recovery	Tons	0.93	0	0	0.17
	- Landfilling	Tons	5.56	0	0	3.59
	- Other disposal operations	Tons	0.50	0	1.15	0
	Offsite					
	- Incineration with energy recovery	Tons	282.43	18.18	579.41	671.61
	- Incineration without energy recovery	Tons	3,979.15	18.41	15.61	109.10

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Landfilling	Tons	369.55	231.27	244.36	245.75
	- Other disposal operations	Tons	86.37	6.55	33.47	300.05
	Total weight of non-hazardous waste directed to disposal	Tons	22,406.17	13,711.61	2,413.55	3,226.75
	Onsite					
	- Incineration with energy recovery	Tons	0	45	36	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	1,829.71	12,441.88	350.25	369.17
	- Other disposal operations	Tons	11.36	0	0	0
	Offsite					
	- Incineration with energy recovery	Tons	0	0	411.80	128.48
	- Incineration without energy recovery	Tons	0.80	0.36	33.71	5.07
	- Landfilling	Tons	20,564.30	1,213.36	1,805.44	1,563.13
	- Other disposal operations	Tons	0	11.00	980.94	1,160.90
Farming business	Total weight of waste directed to disposal	Tons	8.12	9.01	9.45	17.68
	Total weight of hazardous waste directed to disposal	Tons	0	0	0.21	0.94
	Onsite					
	- Incineration with energy recovery	Tons	0	0	0	0

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	0	0	0	0
	- Other disposal operations	Tons	0	0	0	0
	Offsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	0	0	0.21	0.94
	- Other disposal operations	Tons	0	0	0	0
	Total weight of non-hazardous waste directed to disposal	Tons	8.12	9.01	9.24	16.74
	Onsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	0	0	0	0
	- Other disposal operations	Tons	0	0	0	0
	Offsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	8.12	9.01	9.24	16.74

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Other disposal operations	Tons	0	0	0	0
Sugar business	Total weight of waste directed to disposal	Tons	3,735,953.45	4,144,121.51	3,861,684.30	3,624,905.23
	Total weight of hazardous waste directed to disposal	Tons	4,054.77	169.50	417.65	474.49
	Onsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0.93	0	0	0.07
	- Landfilling	Tons	1.33	0	0	3.56
	- Other disposal operations	Tons	0	0	0	0
	Offsite					
	- Incineration with energy recovery	Tons	282.43	16.80	289.19	277.11
	- Incineration without energy recovery	Tons	3,979.15	15.82	15.61	101.25
	- Landfilling	Tons	369.55	135.08	102.34	92.50
	- Other disposal operations	Tons	86.37	1.80	10.51	0
	Total weight of non-hazardous waste directed to disposal	Tons	3,731,898.68	4,143,952.01	3,861,266.65	3,624,430.74
	Onsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0	0	0	0

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Landfilling	Tons	1,679.00	387.27	301.19	369.17
	- Other disposal operations	Tons	0	0	0	0
	Offsite					
	- Incineration with energy recovery	Tons	3,729,704.93	4,142,943.51	3,860,345.66	3,623,251.89
	- Incineration without energy recovery	Tons	0.80	0.36	23.71	0
	- Landfilling	Tons	513.95	620.87	596.08	809.68
	- Other disposal operations	Tons	0	0	0	0
Energy business	Total weight of waste directed to disposal	Tons	19,997.11	324,998.51	149,683.69	428.34
	Total weight of hazardous waste directed to disposal	Tons	301.63	68.99	1,675.44	90.64
	Onsite					
	- Incineration with energy recovery	Tons	0	0	1,539.55	0
	- Incineration without energy recovery	Tons	0	0	0	0.10
	- Landfilling	Tons	4.23	0	0	0.03
	- Other disposal operations	Tons	0.50	0	1.15	0
	Offsite					
	- Incineration with energy recovery	Tons	3.59	1.38	35.23	24.46
	- Incineration without energy recovery	Tons	0	2.59	0	3.69
	- Landfilling	Tons	290.89	60.26	76.55	62.36

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Other disposal operations	Tons	2.42	4.75	22.96	0
	Total weight of non-hazardous waste directed to disposal	Tons	19,695.48	324,929.53	148,008.25	337.7
	Onsite					
	- Incineration with energy recovery	Tons	0	312,578.29	145,627.00	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	4.54	12,030.02	49.06	0
	- Other disposal operations	Tons	11.36	0	0	0
	Offsite					
	- Incineration with energy recovery	Tons	0	0	404.05	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	19,679.58	310.21	947.20	336.80
	- Other disposal operations	Tons	0	11.00	980.94	0.9
Wood substitute materials business	Total weight of waste directed to disposal	Tons	452.49	144.12	248.16	518.35
	Total weight of hazardous waste directed to disposal	Tons	362.79	0	0	374.92
	Onsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0	0	0	0

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Landfilling	Tons	0	0	0	0
	- Other disposal operations	Tons	0	0	0	0
	Offsite					
	- Incineration with energy recovery	Tons	278.84	0	248.16	347.41
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	0	0	0	27.51
	- Other disposal operations	Tons	83.95	0	0	0
	Total weight of non-hazardous waste directed to disposal	Tons	89.70	144.12	0	143.43
	Onsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	0	0	0	0
	- Other disposal operations	Tons	0	0	0	0
	Offsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0	0	0	1.08
	- Landfilling	Tons	89.70	144.12	0	142.35
	- Other disposal operations	Tons	0	0	0	0

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
Fertilizer business	Total weight of waste directed to disposal	Tons	28.52	40.01	100.69	93.62
	Total weight of hazardous waste directed to disposal	Tons	5.61	3.43	68.88	82.00
	Onsite					
	- Incineration with energy recovery	Tons	0.3	0	0	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	0	0	0	0
	- Other disposal operations	Tons	0	0	0	0
	Offsite					
	- Incineration with energy recovery	Tons	0	0	5.86	20.00
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	5.31	3.43	63.02	62.00
	- Other disposal operations	Tons	0	0	0	0
	Total weight of non-hazardous waste directed to disposal	Tons	22.91	36.58	31.81	11.62
	Onsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	0	15.59	0	0

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Other disposal operations	Tons	0	0	0	0
	Offsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	22.91	20.99	31.81	11.62
	- Other disposal operations	Tons	0	0	0	0
Logistics and warehouse business	Total weight of waste directed to disposal	Tons	189.07	53.97	91.59	1,567.67
	Total weight of hazardous waste directed to disposal	Tons	0	32.40	0.22	300.34
	Onsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	0	0	0	0.34
	- Other disposal operations	Tons	0	0	0	300.00
	Offsite					
	- Incineration with energy recovery	Tons	0	0	0.22	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	0	32.40	0	0
	- Other disposal operations	Tons	0	0	0	0

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	Total weight of non-hazardous waste directed to disposal	Tons	189.07	21.57	91.37	1,267.33
	Onsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	0	0	0	0
	- Other disposal operations	Tons	0	0	0	0
	Offsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0	0	10.00	0
	- Landfilling	Tons	189.07	21.57	81.37	107.33
	- Other disposal operations	Tons	0	0	0	1,160
Other business	Total weight of waste directed to disposal	Tons	207.14	140.69	178.72	167.90
	Total weight of hazardous waste directed to disposal	Tons	0	0.10	2.98	6.94
	Onsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	0	0	0	0

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
	- Other disposal operations	Tons	0	0	0	0
	Offsite					
	- Incineration with energy recovery	Tons	0	0	0	2.63
	- Incineration without energy recovery	Tons	0	0	0	4.16
	- Landfilling	Tons	0	0.10	2.24	0.10
	- Other disposal operations	Tons	0	0	0	0.05
	Total weight of non-hazardous waste directed to disposal	Tons	207.14	140.59	175.74	160.96
	Onsite					
	- Incineration with energy recovery	Tons	0	45.00	36.00	0
	- Incineration without energy recovery	Tons	0	0	0	0
	- Landfilling	Tons	146.17	9	0	0
	- Other disposal operations	Tons	0	0	0	0
	Offsite					
	- Incineration with energy recovery	Tons	0	0	0	0
	- Incineration without energy recovery	Tons	0	0	0	17.28
	- Landfilling	Tons	60.97	86.59	139.74	5.07
	- Other disposal operations	Tons	0	0	0	138.61

Business Unit	Waste to Disposal	Unit	2022	2023	2024	2025
CSA 2.4.2 Waste Disposal						
Mitr Phol Group	Total waste recycled/reused	Tons	2,089,874.73	2,308,402.94	2,344,773.42	2,034,143.70
	Total waste disposed	Tons	27,130.96	13,986.01	6,031.69	4,557.02
	- Waste landfilled	Tons	22,769.12	13,886.51	2,400.05	2,181.64
	- Waste incinerated with energy recovery	Tons	282.73	63.18	2,566.76	800.09
	- Waste incinerated without energy recovery	Tons	3,980.88	18.77	49.32	114.34
	- Waste otherwise disposed	Tons	98.23	17.55	1,015.56	1,460.95
	Target of total waste disposed	Tons		26,045.72 (Reduced 4% from 2022)	24,960.48 (Reduced 8% from 2022)	23,875.24 (Reduced 12% from 2022)
	Data coverage	% of revenue	100	100	100	100

Remarks:

1. The waste disposal data was sourced from information provided by waste management operators and the disposal reports submitted to government authorities.
2. Other recovery operations include repurposing, sorting for sale and anaerobic digestion treatment.
3. Other disposal methods include waste stabilization and other treatment.
4. Total waste generation excludes by-products reused within the Group, such as bagasse, filter cake, molasses, ash, and vinasse, which are utilized as fuel, soil conditioners, or raw materials in other Group businesses.
5. In 2024, the classification of hazardous waste has been adjusted. Previously, waste with disposal codes 041 (Utilization as fuel substitution or combustion for energy recovery) and 042 (Fuel blending) was classified under the category "Waste Diverted from Disposal – Recycling." However, it has now been reclassified under the category "Waste Directed to Disposal – Incineration with Energy Recovery."

Non-compliance with Environmental Laws and Regulations

Business Unit	Non-compliance with Environmental Laws and Regulations	Unit	2022	2023	2024	2025
GRI 2-27 (2021) Compliance with Laws and Regulations/ CSA 2.2.4 Environmental Violations/ CSA 2.10.7 Business Impacts of Water Related Incidents						
Mitr	Number of cases for significant fines for non-compliance with laws and regulations (> 10,000 USD)	Cases	0	0	0	0
Phol	Significant fines for non-compliance with laws and regulations (> 10,000 USD)	Baht	0	0	0	0
Group	Number of non-monetary sanctions	Cases	0	0	0	0
	Number of cases brought through dispute resolution mechanism	Cases	0	0	0	0

Packaging

Business Unit	Packaging	Unit	2022	2023	2024	2025
CSA 2.3.2 Packaging Materials						
Mitr Phol Group	Total weight of all paper packaging	Tons		1,541	1,959	1,907
	Certified paper packaging	% of total weight of paper packaging		93.84	94.10	100
	Recycled paper packaging	% of total weight of paper packaging				94.12
	Data coverage	% of cost of goods sold		100	100	100
	Total weight of glass packaging	Tons			1.0	9.7
	Recycled glass packaging	% of total weight of glass packaging			30	30
	Data coverage	% of cost of goods sold			100	100

Business Unit	Packaging	Unit	2022	2023	2024	2025	Target for 2025
CSA 2.3.3 Plastic Packaging							
Mitr Phol Group	Total weight of all plastic packaging	Tons	6,599	7,272	7,760	7,837	7,800
	Recyclable plastic packaging	% of total weight of all plastic packaging	94.50	94.73	94.20	94	94
	Compostable plastic packaging	% of total weight of all plastic packaging	0.001	0.003	0.002	0.001	0.001
	Recycled content within plastic packaging	% of total weight of all plastic packaging	0	0	0.036	0.14	0.10
	Data coverage	% of cost of goods sold	100	100	100	100	

Food Loss & Waste

Business Unit	Packaging	Unit	2022	2023	2024	2025	Target for 2025
CSA 2.4.4 Food Loss & Waste Impact							
Mitr Phol Group	Total food loss & waste	Tonnes	460,521.68	424,690.27	386,792.26	517,444.37	448,920.89
	Total food loss & waste used for alternative purposes	Tonnes	312,469.71	266,206.82	324,068.60	321,455.41	342,553.32
	Total food loss & waste, which is undetermined loss	Tonnes	148,051.97	158,483.45	62,723.65	195,988.97	106,367.58
	Total food loss & waste per weight of sugar sales	Tonnes/ Tonnes sugar sales	0.196	0.180	0.184	0.234	0.19
	Data coverage	Total weight of sugar sales	100	100	100	100	

Remarks: Food loss & waste used for alternative purposes includes sugar loss in bagasses used for biomass energy, sugar loss in molasses used for ethanol production, sugar loss in filter cake used for fertilizer, and deteriorated sugar that are reprocessed.

Food loss & waste, which is undetermined loss e.g., loss into condensate, inversion loss by microorganisms or heat, etc.

Environmental Performance Intensity for Sugar Business

Environmental Performance		Unit	2022	2023	2024	2025
Sugar Business	Direct GHG emissions (Scope 1)	Tons CO ₂ e/ ton of raw sugar		0.0301	0.0343*	0.0249
	Energy indirect GHG emissions (Scope 2)	Tons CO ₂ e/ ton of raw sugar		0.0433	0.0325*	0.0279
	Energy consumption	MJ/ ton of raw sugar		11,673	13,068	11,814

Remark:

Following the Thailand Sugar Business's participation in the TGO Net Zero Organization Program, 2024 was designated as the base year. Scope 1 and Scope 2 emissions for 2024 and 2025 were calculated using the latest TGO emission factors published in January 2026.