

Environment Performance

Climate Change and Energy Conservation

The Rate of Electricity Consumption per Product Unit

Electricity Energy	Unit	2023	2024	Results compared to 2023 (Percent %)
Electricity consumption	GWh	168.36	175.89	Increase 4.47%
Rate of electricity consumption per product unit	KWh/m ³	0.605	0.584	Decrease 3.47%

Greenhouse Gas Emission (GHG Emission)

Unit : TonCO₂eq

Scope of GHG Emissions	2022	2023	2024	Results compared to 2023 (Percent %)
Scope 1 Direct Emissions	419	420	406	Decrease 3.33%
Scope 2 Indirect Emissions from Energy	69,010	77,135	84,510	Increase 9.56%
Scope 3 Indirect Emissions	13,626	15,230	16,686	Increase 9.56%
Other	174	180	79	Decrease 56.11%
Total	83,229	92,965	101,681	Increase 9.38%

GHG Emissions Rate per Product Unit

 TonCO₂eq/m³

Scope of GHG Emissions	2022	2023	2024	Results compared to 2023 (Percent %)
Scope1 + Scope 2	0.00025	0.00028	0.00028	Same as before
Scope 1 + Scope 2 + Scope 3	0.00030	0.00034	0.00033	Decrease 2.94%

GHG Emission Scope 3 split based on the 15 categories of the GHG Protocol Corporate Value Chain Standard

Category (Scope 3)	2022	2023	2024	Emission Factor and Omission
1. Purchased goods and services	13,326.93	11,042.87	11,251.05	TGO EF
2. Capital goods	235.47	483.18	239.31	TGO EF
3. Fuel and energy related activities	13,664.51	15,268.00	16,729.31	TGO EF
4. Upstream transportation and distribution	148.61	126.78	143.22	TGO EF
5. Waste generated in operations	4,813.84	11,934.44	10,104.59	TGO EF
6. Business travel	5.01	-	-	TGO EF
7. Employee commuting	314.89	312.14	351.98	TGO EF

Category (Scope 3)	2022	2023	2024	Emission Factor and Omission
8. Upstream leased assets	5.27	5.25	-	IPCC GWP
9. Downstream transportation and distribution	2.17	2.09	1.69	TGO EF
10. Processing of sold products	N/A	N/A	N/A	-
11. Use of sold products	N/A	N/A	N/A	-
12. End-of-life treatment of sold products	2.68	0.65	0.69	TGO EF
13. Downstream leased assets	N/A	N/A	N/A	-
14. Franchises	N/A	N/A	N/A	-
15. Investments	N/A	N/A	N/A	-
Other upstream	-	-	-	-
Total	32,519.38	39,175.40	38,821.84	

Solar Cell System

Solar Cell System	Unit	2020	2021	2022	2023	2024	Results compared to 2023 (Percent %)
Quantity of electricity generated from the Solar Rooftopsystem	KWh	4,367,503	4,235,331	4,387,643	4,638,578	4,543,074	Decrease 2.06%
Reducing GHG emissions	TonCO ₂ eq	2,183	2,117	2,158	2,320	2,272	Decrease 2.07%

Air Pollution

In 2024, the Company conducted an inspection of air pollution generated from the operation of power generators. The inspection was certified by an external agency, **Health and Envitech Co., Ltd.**, meeting the standard criteria as follows:

Generator	Place	Results Inspection	Standard criteria	Detected Pollution Values	
				2023	2024
Backup Generator (71GEN01)	Banglen Water Treatment Plant	Passed the standard criteria ✓ Volume of dust emissions (Particulate Matter : PM)	240 mg/cm ³	15.60	15.50
		✓ Nitrogen oxide gas (NOx)	200 ppm	21.00	24.30
		✓ Sulfur dioxide gas (SOx)	950 ppm	16.00	14.00
Backup Generator (71GEN02)	Banglen Water Treatment Plant	Passed the standard criteria ✓ Volume of dust emissions (Particulate Matter : PM)	240 mg/cm ³	12.10	17.50
		✓ Nitrogen oxide gas (NOx)	200 ppm	19.00	29.00
		✓ Sulfur dioxide gas (SOx)	950 ppm	18.00	13.50

Generator	Place	Results Inspection	Standard criteria	Detected Pollution Values	
				2023	2024
Backup Generator (91GEN01)	Phutthamonthon Water Distribution Station	Passed the standard criteria ✓ Volume of dust emissions (Particulate Matter : PM)	240 mg/cm ³	14.90	18.50
		Nitrogen oxide gas (NOx)	200 ppm	10.00	16.80
		Sulfur dioxide gas (SOx)	950 ppm	3.00	3.90
Backup Generator (91GEN02)	Phutthamonthon Water Distribution Station	Passed the standard criteria ✓ Volume of dust emissions (Particulate Matter : PM)	240 mg/cm ³	13.30	19.70
		Nitrogen oxide gas (NOx)	200 ppm	9.60	17.60
		Sulfur dioxide gas (SOx)	950 ppm	4.00	4.10
Backup Generator (93GEN01)	Mahachai Water Distribution Station	Passed the standard criteria ✓ Volume of dust emissions (Particulate Matter : PM)	240 mg/cm ³	12.70	4.60
		Nitrogen oxide gas (NOx)	200 ppm	10.20	17.50
		Sulfur dioxide gas (SOx)	950 ppm	3.60	3.90