Environmental Performance

Indicator	Item	Unit	2025	2024	2023
Material Use					
GRI 301-1	**Total material use***	**Million m³**	**20.45**	**16.93**	**-**
	Renewable materials	Million m³	20.45	16.93	-
	Renewable materials	Million m³	0.00	0.00	-
Energy Use					
GRI 302-1	**Direct energy use**	**Million MJ**	**9.41**	**9.40**	**-**
	Liquefied petroleum gas (LPG)	Million MJ	0.83	0.80	-
	Diesel	Million MJ	5.39	5.47	-
	Gasoline	Million MJ	3.20	3.14	-
	Indirect energy use	**Million MJ**	**39.83**	**38.08**	**-**
	Electricity	Million MJ	39.83	38.08	-
GRI 302-3	Total energy intensity (within organization)	Million MJ/rai	0.0065	0.0063	-
GHG Emissions					
GRI 305-1	**Scope 1 GHG emissions**	**Tons CO_2 equivalent**	**1,572.65**	**708.80**	**-**
	Mobile Combustion	**Tons CO_2 equivalent**	**555.19**	**561.86**	**-**
	Diesel - various vehicle types	Tons CO_2 equivalent	401.79	405.12	-
	Diesel - various vehicle types (biogenic carbon)**	Tons CO_2 equivalent	-	0.17	-
	Gasoline - various vehicle types	Tons CO_2 equivalent	150.96	154.76	-
	Gasoline - various vehicle types (biogenic carbon)**	Tons CO_2 equivalent	-	0.10	-
	Aviation fuel, Sri Racha	Tons CO_2 equivalent	2.44	1.71	-
	Stationary Combustion	**Tons CO_2 equivalent**	**55.98**	**48.40**	**-**
	Diesel - machinery	Tons CO_2 equivalent	5.30	4.70	-
	Diesel - machinery (biogenic carbon)**	Tons CO_2 equivalent	-	0.00	-
	Gasoline - machinery	Tons CO_2 equivalent	24.80	20.99	-
	Gasoline - machinery (biogenic carbon)**	Tons CO_2 equivalent	-	0.00	-
	LPG gas	Tons CO_2 equivalent	25.88	22.71	-

Indicator	Item	Unit	2025	2024	2023
	Fugitive emissions	**Tons CO_2 equivalent**	**961.48**	**98.54**	**-**
	CO_2 fire suppressant	Tons CO_2 equivalent	0.00	0.00	-
	Refrigerant R-32	Tons CO_2 equivalent	7.86	1.89	-
	Refrigerant R-410a	Tons CO_2 equivalent	887.89	25.95	-
	Methane from employee restroom use (septic tanks)	Tons CO_2 equivalent	45.90	47.47	-
	Nitrous oxide from fertilizer application	Tons CO_2 equivalent	4.25	2.63	-
	SF6 in transformer switchgear	Tons CO_2 equivalent	0.00	0.00	-
	Methane from enteric fermentation in livestock	Tons CO_2 equivalent	15.03	19.97	-
	Methane from manure management (fertilizer)	Tons CO_2 equivalent	0.42	0.55	-
	On-site landfill waste	Tons CO_2 equivalent	0.13	0.08	-
	Methane from wastewater treatment systems	Tons CO_2 equivalent	0.00	0.00	-
	Separately reported direct GHG emissions	**Tons CO_2 equivalent**	**110.47**	**234.18**	**-**
	Air conditioning refrigerant R-22	Tons CO_2 equivalent	79.20	193.16	-
	Diesel - various vehicle types (biogenic carbon)	Tons CO_2 equivalent	17.95	27.70	-
	Gasoline - various vehicle types (biogenic carbon)	Tons CO_2 equivalent	13.31	13.32	-
GRI 305-2	**Scope 2 GHG emissions**	**Tons CO_2 equivalent**	**4,981.89**	**4,960.97**	**-**
	Electricity consumption	Tons CO_2 equivalent	4,981.89	4,960.97	-
GRI 305-3	**Scope 3 GHG emissions**	**Tons CO_2 equivalent**	**265,953.59**	**196,786.25**	**-**
	Fuel- and energy-related activities	**Tons CO_2 equivalent**	**265,193.25**	**196,072.00**	**-**
	Head Office	Tons CO_2 equivalent	68.88	48.29	-
	Saha Group Industrial Park, Sri Racha	Tons CO_2 equivalent	260,678.77	191,034.38	-
	Saha Group Industrial Park, Kabinburi	Tons CO_2 equivalent	446.15	471.60	-
	Saha Group Industrial Park, Lamphun	Tons CO_2 equivalent	309.86	351.60	-
	Saha Group Industrial Park, Mae Sot	Tons CO_2 equivalent	17.76	20.48	-
	J-Park Nihon Mura, Sri Racha and J-Town, Sri Racha	Tons CO_2 equivalent	3,671.85	4,145.65	-
	Waste generated in operations	**Tons CO_2 equivalent**	**760.34**	**714.25**	**-**
	Head Office	Tons CO_2 equivalent	42.30	27.08	-
	Saha Group Industrial Park, Sri Racha	Tons CO_2 equivalent	222.14	385.72	-
	Saha Group Industrial Park, Kabinburi	Tons CO_2 equivalent	71.31	82.73	-
	Saha Group Industrial Park, Lamphun	Tons CO_2 equivalent	19.88	18.09	-
	Saha Group Industrial Park, Mae Sot	Tons CO_2 equivalent	8.16	0.00	-
	J-Park Nihon Mura, Sri Racha and J-Town, Sri Racha	Tons CO_2 equivalent	396.55	200.63	-

Indicator	Item	Unit	2025	2024	2023
GRI 305-4	**GHG emissions intensity**				
	Scope 1	Tons CO_2 equivalent	1,573.00	708.79	-
	Scope 2	Tons CO_2 equivalent	4,982.00	4,960.97	-
	Scope 3	Tons CO_2 equivalent	265,954.00	196,786.27	-
	Total (Scope 1+2)	Tons CO_2 equivalent	6,555.00	5,669.76	-
	Total (Scope 1+2+3)	Tons CO_2 equivalent	272,509.00	202,456.03	-
	Output	Rai	7,593.73	7,593.73	-
	Carbon Intensity (Scope 1+2)	Tons CO_2 equivalent	0.8632	0.7466	-
	Carbon Intensity (Scope 1+2+3)	Tons CO_2 equivalent	35.89	26.66	-
GRI 305-5	GHG emissions reduction	Tons CO_2 equivalent	123.53	65.72	-
Air Pollution Control					
GRI 305-7	**Air pollutant emissions**				
	Nitrogen oxides (NO_x)	Tons	0.00	0.00	-
	Sulfur oxides (SO_x)	Tons	0.00	0.00	-
	Fine particulate matter ≤2.5 microns (PM2.5)	Tons	0.00	0.00	-
	Total suspended particles (TSP)	Tons	0.00	0.00	-
Water Consumption					
GRI 303-3	**Total water withdrawal by source**	**Million m³**	**20.473**	**16.949**	**16.564**
	Public surface water	Million m³	4.065	3.936	4.006
	Saha Group Industrial Park reservoir	Million m³	14.605	12.292	11.771
	Groundwater	Million m³	1.613	0.574	0.568
	Raw water from other agencies	Million m³	0.171	0.129	0.202
	Tap water	Million m³	0.020	0.019	0.017
SET ESG	Net water consumption per unit of products and services	Million m³ / Rai	0.003	0.002	0.002
GRI 303-4	**Total wastewater discharged**	**Million m³**	**2.271**	**2.148**	**-**
	Total wastewater with suspended/dissolved solids <1,000mg/L)	Million m³	2.271	2.148	-
	Total other wastewater with suspended/dissolved solids >1,000mg/L	Million m³	0.00	0.00	-
	Total wastewater by discharge destination	**Million m³**	**2.271**	**2.148**	**-**
	Surface water	Million m³	2.271	2.148	-
	Groundwater	Million m³	0.00	0.00	-
	Seawater	Million m³	0.00	0.00	-
	Central wastewater treatment system	Million m³	0.00	0.00	-
	Other agency water sources	Million m³	0.00	0.00	-
GRI 303-5	Total water consumption from operations*	Million m³	0.098	6.991	7.754

Indicator	Item	Unit	2025	2024	2023
GRI 303-4-d	**Effluent quality**				
	BOD	**mg/L**			
	Saha Group Industrial Park, Sri Racha	mg/L	7.58	6.64	7.14
	Saha Group Industrial Park, Kabinburi	mg/L	3.82	3.74	5.56
	Saha Group Industrial Park, Lamphun	mg/L	7.31	8.20	5.95
	COD	**mg/L**			
	Saha Group Industrial Park, Sri Racha	mg/L	48.71	49.50	54.25
	Saha Group Industrial Park, Kabinburi	mg/L	45.75	40.36	44.09
	Saha Group Industrial Park, Lamphun	mg/L	44.09	43.25	42.58
	Total Suspended Solid (TSS)	**mg/L**			
	Saha Group Industrial Park, Sri Racha	mg/L	8.02	8.92	6.25
	Saha Group Industrial Park, Kabinburi	mg/L	5.58	5.30	5.61
	Saha Group Industrial Park, Lamphun	mg/L	12.55	13.25	11.25
	Total Dissolved Solid (TDS)	**mg/L**			
	Saha Group Industrial Park, Sri Racha	mg/L	882.67	977.17	1,079.17
	Saha Group Industrial Park, Kabinburi	mg/L	839.25	271.91	313.45
	Saha Group Industrial Park, Lamphun	mg/L	734.00	827.00	810.00
	pH	**-**			
	Saha Group Industrial Park, Sri Racha	-	7.63	7.71	7.88
	Saha Group Industrial Park, Kabinburi	-	7.68	7.74	7.92
	Saha Group Industrial Park, Lamphun	-	7.68	7.51	7.77
Waste Management					
GRI 306-3	**Total waste from business operations**	**Tons**	**1,194.62**	**951.92**	**-**
	Total hazardous waste	Tons	0.00	0.00	-
	Total non-hazardous waste	Tons	1,194.62	951.92	-
GRI 306-4	**Total waste recovered**	**Tons**	**6.01**	**18.86**	**-**
	Hazardous waste	**Tons**	**0.00**	**0.00**	**-**
	Reuse	**Tons**	**0.00**	**0.00**	**-**
	Onsite management	Tons	0.00	0.00	-
	Off-site management	Tons	0.00	0.00	-
	Recycle	**Tons**	**0.00**	**0.00**	**-**
	Onsite management	Tons	0.00	0.00	-
	Off-site management	Tons	0.00	0.00	-

Indicator	Item	Unit	2025	2024	2023
	Non-hazardous waste	**Tons**	**6.01**	**18.86**	**-**
	Reuse	**Tons**	**0.00**	**0.00**	**-**
	Onsite management	Tons	0.00	0.00	-
	Off-site management	Tons	0.00	0.00	-
	Recycle	**Tons**	**6.01**	**18.86**	**-**
	Onsite management	Tons	5.76	4.83	-
	Off-site management	Tons	0.25	14.04	-
GRI 306-5	**Total waste disposed**	**Tons**	**1,188.61**	**949.26**	**-**
	Hazardous waste	**Tons**	**0.00**	**0.00**	**-**
	Incineration without energy recovery	Tons	0.00	0.00	-
	Waste to Energy incineration	Tons	0.00	0.00	-
	Landfill	Tons	0.00	0.00	-
	Other disposal operations	Tons	0.00	0.00	-
	Onsite storage	Tons	0.00	0.00	-
	Non-hazardous waste	**Tons**	**1,188.61**	**949.26**	**-**
	Incineration without energy recovery	Tons	0.00	0.00	-
	Waste to Energy incineration	Tons	175.22	0.00	-
	Landfill	Tons	1,013.39	949.26	-
	Other disposal operations	Tons	0.00	0.00	-
	Onsite storage	Tons	0.00	0.00	-

Remark : * In fiscal year 2025, the Company revised the scope of water consumption, as the tap water production system was transferred to the oversight and responsibility of Eastern Thai Consulting 1992 Company Limited, which now serves as the producer and supplier of utility water to the Company.

** In fiscal year 2025, Biogenic greenhouse gas emissions are reported separately.