



Performance Summary: GHG Emission and Other Emissions

GHG Emission and Other Emissions							
GRI	Required Data	Unit	OR Performance				
			2020	2021	2022	2023	Target
-	Total GHG emissions (Scope 1+2)	Metric tonnes CO ₂ equivalents	25,334	22,249	30,293	33,407	28,900
GRI 305-1 (2016)	Direct Greenhouse Gas Emissions (Scope 1)						
	Total direct GHG emissions (Scope 1) ^[1]	Metric tonnes CO ₂ equivalents	4,074	3,483	4,427	4,998	4,639
	Direct Greenhouse Gas Emissions (Scope 1)						
	- Oil Business (Company Own Company Corporate) Note: Oil business includes Oil&Gas Terminal, LPG Refurbishing Plant, Lubricants Distribution Center, FIT Auto, Retails)	Metric tonnes CO ₂ equivalents	794	839	833.78	1,152	-
	- Retail Business (Company Own Company Corporate)	Metric tonnes CO ₂ equivalents	607	640	837	785	-
	- Others (Company Own Company Corporate) Note: Building and Office	Metric tonnes CO ₂ equivalents	2,674	2,004	2,756	3,060	-
	Biogenic CO ₂ emissions (Scope 1)	Metric tonnes CO ₂ equivalents	No Data	No Data	No Data	No Data	-
GRI 305-2 (2016)	Indirect Greenhouse Gas Emissions (Scope 2)						
	Total Indirect Greenhouse Gas Emissions (Scope 2) ^[1]	Metric tonnes CO ₂ equivalents	21,260	18,766	25,866	28,410	26,292
	- Location-based	Metric tonnes CO ₂ equivalents	21,260	18,766	25,866	29,188	26,292
	- Market-based	Metric tonnes CO ₂ equivalents	N/A	N/A	0.00	28,410	25,514
	Indirect Greenhouse Gas Emissions (Scope 2) breakdown by business units						
	Oil Business (Company Own Company Corporate) Note: Oil business includes Oil&Gas Terminal, LPG Refurbishing Plant, Lubricants Distribution Center, FIT Auto, Retails)	Metric tonnes CO ₂ equivalents	17,096	13,719	20,102	18,779	-
	- Location-based	Metric tonnes CO ₂ equivalents	17,095.80	13,719.08	20,102.00	19,293	-
	- Market-based	Metric tonnes CO ₂ equivalents	N/A	N/A	N/A	18,779	-
	Retail Business (Company Own Company Corporate) Note: Café Amazon, Roasting	Metric tonnes CO ₂ equivalents	2,835	4,113	4,427	8,069	-
	- Location-based	Metric tonnes CO ₂ equivalents	2,834.98	4,113.35	4,427.00	8,290	-
	- Market-based	Metric tonnes CO ₂ equivalents	N/A	N/A	N/A	8,069	-
	Others	Metric tonnes CO ₂ equivalents	1,329	934	1,337	1,562	-
	- Location-based	Metric tonnes CO ₂ equivalents	1,329.48	933.92	1,337.00	1,605	-
	- Market-based	Metric tonnes CO ₂ equivalents	N/A	N/A	N/A	1,562	-
GRI 305-3 (2016)	Other Indirect (Scope 3) GHG Emissions						
	Cat 11: Use of sold product	Metric tonnes CO ₂ equivalents	No Data	No Data	66,855,074	66,356,737	-
GRI 305-7 (2016)	Nitrogen Oxides (NOx), Sulfur Oxides (SOx) and Other Significant Air Emissions						
	Total nitrogen oxides (NOX) emissions	Metric tonnes	0.27	0.51	1.93	1.68	-
	Total sulfur oxides (SOX) emissions	Metric tonnes	0.02	0.36	0.99	1.48	-
	Total volatile organic compounds (VOC) emissions	Metric tonnes	8,380.01	8,426.71	8,789.95	8,877.45	-
	Total suspended particles (TSP) emissions	Metric tonnes	N/A	N/A	2.88	9.30	-

'Remarks :

N/A (Not Applicable): There is no relevant to the operations of OR.

No Data: There is no data in the reporting year.

[1] OR using the PTT Group's statistical reporting standards according to the principles of WBCSD Greenhouse Gas Protocol . The data including CO2 CH4 N2O HFCs PFCs SF6.

[3] Other Indirect (Scope 3) GHG Emissions breakdown by category referred to GHG protocol

[4] In 2021, additional information is reported for the Nakhon Sawan Petroleum Terminal due to the development of NOx data collection .

[5] GHG calculation of Cat:11 (Use of sold product) is calculated based on the amount of sold company's products which will generated the GHG emission (covering the following products e.g. LPG, Aviation fuel, Fuel oil, Gasoline, Lubricants)

The data covers the following operation site :

- Petroleum Terminal, Oil Depots, LPG Terminal and Aviation except Rental Terminal and Eastern Petroleum Terminal (Which covered Sriracha Oil Depot, Ban Rong Po LPG Depot and LPG Cylinder Refurbishment (Repairing) Plant, Khao Bo Ya LPG Depot)
- COCO PTT Station, FIT Auto
- Lubricants Distribution Center
- Prakanong Office
- LPG Cylinder Refurbishment Plant.
- Café Amazon Roasting Plant
- Amazon Inspiring Campus (AICA)
- Oil and Retail Business Academy (ORA)