

Operational Eco-efficiency Data

GRI	Required Data	Unit	Data Collection Period			
			2018	2019	2020	2021
302-1	Energy Consumption					
	Total direct non-renewable energy consumption	MWh	29,722,222	28,188,366	27,913,201	27,480,730
	Electricity (non-renewable) purchased	MWh	667,075	620,335	655,913	622,409
	Steam/ heating/ cooling and other energy (non-renewable) purchased	MWh	292,742	324,550	336,849	306,202
	Total energy consumption within the organisation from non-renewable sources	MWh	30,682,038	29,133,251	28,905,963	28,409,341
	Total renewable energy consumption	MWh	0	0	0	0
-	Percentage of data coverage	% of Operation	100	100	100	100
	Total non-renewable energy consumption target at fiscal year	MWh			28,937,286	28,698,292
302-3	Total energy intensity ¹	GJ/ tonne production	16.36	15.37	15.73	15.76
305-1	Greenhouse Gases Emissions (GHGs)²					
	Total direct GHGs emissions (scope 1) ³	Million tonne CO ₂ equivalent	5.77	5.73	5.77	5.67
	Percentage of data coverage	% of coverage	100	100	100	100
305-2	Indirect GHGs emissions from energy purchased and consumes (scope 2) ²	Million tonne CO ₂ equivalent	1.31	1.29	1.33	1.33
	Percentage of data coverage	% of coverage	100	100	100	100
305-4	GHGs emission intensity (scope 1 & 2) ⁴	Tonne CO ₂ equivalent/ tonne production	0.68	0.68	0.66	0.67
305-3	GHGs emissions (scope 3)	Million tonne CO ₂ equivalent			3.06	3.27

¹ All types of energy included in the intensity ratio and consumed within the organisation

² GHGs emissions based on report of 1) GHGs calculation standard, methodology, emission factors and GWP referred to IPCC 2006, WRI GHG protocol and ISO 14064. 2) The operational control approach for emissions.

³ All greenhouse gases included in the report.

⁴ Types of GHGs emissions, which are direct (scope 1) and energy indirect (scope 2), included in the intensity ratio.

GRI	Required Data	Unit	Data Collection Period			
			2018	2019	2020	2021
305-7	NOx, SOx, and Other Significant Air Emissions					
	Volatile organic compounds (VOCs)	Tonne VOCs	Not available	Not available	11.68	257.40
	Percentage of data coverage	% of operations	Not available	Not available	22	50
	Nitrogen oxides (NOx) emissions	Tonne NOx	20,690	28,610	23,310	25,070
	Percentage of data coverage	% of operations	100	100	100	100
	Sulfur oxides (SOx) emissions	Tonne SOx	270	840	340	270
	Percentage of data coverage	% of operations	100	100	100	100
-	Water Risk					
	Total actual and opportunity costs (e.g. forgone income) from water-related incidents	RM	0	0	0	0
303-5	Water Consumption and Wastewater					
	Withdrawal: Total municipal water supplies (or from other water utilities)	Million m ³	37.88	37.06	37.83	38.52
	Total net fresh water consumption	Million m ³	37.88	37.06	37.83	38.52
	Percentage of data coverage	% of operations	100	100	100	100
-	Total direct COD	Tonne	150.5	153.7	177.8	171.4
	Percentage of data coverage	% of operations	100	100	100	100
306-2	Routine Waste					
	Total waste disposed	Tonne	2.24	2.01	2.21	1.61
	Total hazardous waste Generated as defined by National Legislation	Tonne	28,200	25,500	27,000	26,200
	% Coverage	%	100	100	100	100
-	Environmental Violations					
	Number of violations of legal obligations/ regulations	Number	0	0	0	0
	Amount of fines/penalties related to the above	RM (Million)	0	0	0	0
	Environmental liability accrued at year end	Number	0	0	0	0
-	Denominator - Production					
	Total production volume	Tonne	10,420,000	10,400,000	10,700,000	10,400,000

Remark: This report remains focus on materiality aspects in Malaysia as the operational control. The information on PCGB subsidiaries and affiliates as well as joint ventures can be found in the Annual Report.