

## Operational Eco-efficiency Data

GRI	Required Data	Unit	Data Collection Period			
			2017	2018	2019	2020
302-1	<b>Energy Consumption</b>					
	Total direct non-renewable energy consumption	MWh	26,397,222	29,722,222	28,188,366	27,913,201
	Electricity (non-renewable) purchased	MWh	650,952	667,075	620,335	655,913
	Steam/ heating/ cooling and other energy (non-renewable) purchased	MWh	374,801	292,742	324,550	336,849
	Total energy consumption within the organisation from non-renewable sources	MWh	27,422,975	30,682,038	29,133,251	28,905,963
-	Total cost of energy consumption	RM (Million)	409.29	430.37	472.64	471.49
	Percentage of data coverage	% of Operation	100	100	100	100
	Total non-renewable energy consumption n target at fiscal year	MWh				28,937,286
302-3	Total energy intensity <sup>1</sup>	MWh/ tonne production	NA	16.36	15.37	15.73
305-1	<b>Greenhouse Gases Emissions (GHGs)<sup>2</sup></b>					
	Total direct GHGs emissions (scope 1) <sup>3</sup>	Million tonne CO <sub>2</sub> equivalent	5.72	5.77	5.73	5.77
	Percentage of data coverage	% of coverage	100	100	100	100
305-2	Indirect GHGs emissions from energy purchased and consumes (scope 2) <sup>2</sup>	Million tonne CO <sub>2</sub> equivalent	1.36	1.31	1.29	1.33
	Percentage of data coverage	% of coverage	100	100	100	100
305-4	GHGs emission intensity (scope 1 & 2) <sup>4</sup>	Tonne CO <sub>2</sub> equivalent/ tonne production	0.88	0.87	0.83	0.80
305-7	<b>NOx, SOx, and Other Significant Air Emissions<sup>5</sup></b>					
	Volatile organic compounds (VOCs)	Tonne VOCs	Not available	Not available	Not available	11.68
	Percentage of data coverage	% of operations	Not available	Not available	Not available	22
	Nitrogen oxides (NOx) emissions	Tonne NOx	20,810	20,690	28,610	23,310
	Percentage of data coverage	% of operations	100	100	100	100

<sup>1</sup> All types of energy included in the intensity ratio and consumed within the organisation

<sup>2</sup> 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.

<sup>3</sup> All greenhouse gases included in the report.

<sup>4</sup> 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			
			2017	2018	2019	2020
	Sulfur oxides (SOx) emissions	Tonne SOx	250	270	840	340
	Percentage of data coverage	% of operations	100	100	100	100
-	<b>Water Risk</b>					
	Total actual and opportunity costs (e.g. forgone income) from water-related incidents	RM	0	0	0	0
303-5	<b>Water Consumption and Wastewater</b>					
	Withdrawal: Total municipal water supplies (or from other water utilities)	Million m <sup>3</sup>	35.26	37.88	37.06	37.83
	Total net fresh water consumption	Million m <sup>3</sup>	35.26	37.88	37.06	37.83
	Percentage of data coverage	% of operations	100	100	100	100
-	Total direct COD	Tonne	225.4	150.5	153.7	170.9
	Percentage of data coverage	% of operations	100	100	100	100
306-2	<b>Routine Waste</b>					
	Total waste disposed	Tonne	2.31	2.24	2.01	2.21
	Total hazardous waste Generated as defined by National Legislation	Tonne	24,600	28,200	25,500	27,000
	% Coverage	%	100	100	100	100
-	<b>Environmental Violations</b>					
	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
<b>Operational Eco-Efficiency</b>						
-	<b>Denominator - Production</b>					
	Total production volume	Tonne	10,136,000	10,420,000	10,400,000	10,700,000

Remarks:

- 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.