erformanc	e Summary Environmental Performa	ance				
ndicators 3RI302-1	Material Aspects Energy consumption within the organization	Unit	2017	2018	2019	2020
irt1302-1	Energy consumption within the organization Total energy consumption within the organization Total fuel consumption within the organization from non-renewable sources	MJ NJ	6.548.882.864	6.272.113.885 3.842.134.240	8,230,240,250	8,233,894,1
	- Fuel oli - Natural gas	MJ MJ	1,817,833,830 112,984,871	1,364,409,734 3.298.576	1,125,218,753 19.089.673	1,213,782,3
	Reused oil Gasoline	MJ	4,584,687	64,885,721 4,303.097	316,760,421 4,308,057	225,289,6 4,881,1
	Desel D	MJ MJ MJ	1,137,919,666 1,040,995,429 103,399,044	997,922,778 1,300,044,619 107,269,714 1,072,622,936	1,083,453,896 1,719,556,012 181,410,434	993,854,9 1,463,530,2 224,735,4
	* Biogas	MJ MJ MJ	103,399,044 1,190,073,807 583,460,442	565,276,866	181,410,434 2,658,773,769 668,481,859	224,735,1 2,960,910, 629,994,1
	Concentrated slop Technical alcohol	MJ MJ	558,402,242 48,211,123	451,631,413 55,714,657	269,827,965 54,483,922	508,714,0 64,632,3
	- Wood Chip - Rice Husk - Pain Shel	MJ	0	0	1,631,099,974 34,279,740	1,673,871, 35,079,6
	Biofuels Electricity and steam purchased for consumption	MJ MJ	0	0	600,310 1,291,715,097	48,618,
	Electricity consumption steam consumption Steam consumption Set generated electricity from renewable sources	MJ MJ MJ	1,094,353,260 77,723,079	991,558,614 93,511,279 442,337	1,165,983,325 125,731,773 392,535	1,125,758,0 136,306,0 536,
	Self-generated electricity from renewable sources	MJ MJ MJ	456 456	442,337 442,337 35,977,518	392,535 392,535 170,438,396	536,* 536,* 153,463,*
	Electricity Sold Electricity sold Electricity sold from renewable sources Electricity sold from renewable sources	MJ	30,985,265 30,985,265	35,977,518 35,977,518	170,438,395 170,438,395	153,463,1
	Energy Intensity (Beverage) ⁽¹⁾ - Energy Intensity (Beverage) ⁽¹⁾ - Energy Intensity (Distillery) ⁽²⁾	MJ/ NL MJ/ NL	215.48 565.59	204.33 555.09	244.89 701.09	245.
	Energy Intensity (Browery) Energy Intensity (Oish)	MJ/hL MJ/hL	198.86 119.65	213.01 111.48	218.25 130.00	231. 137.
	• Energy Intensity (Sermsuk) Energy Intensity (Beverage • Thaliand) ⁽¹⁰⁾	MJ/ NL MJ/ NL	50.18 215.48	43.16 204.33	41.83 232.94	35.
	Energy Intensity (Grand Roval) ⁽²⁾ Energy Intensity (Inver House) ⁽²⁾	MJ/NL MJ/NL	N/A N/A	N/A N/A 5.83	592.44 757.44	527. 855.
RI303-3	Endrov Interfativ (a dool) Water Withdrawal ⁽⁰⁾	Magalion	24.842	19.883	24.080	24.1
	- Surface water (Preshwater > 1000 mg/L Total Dissolved Solds) - Surface water (Other water > 1000 mg/L Total Dissolved Solds)	Megalters	18,827	15,128	18.233	16.
	Total surface water withdrawn Ground water (Freshwater ± 1000 mg/L Total Dissolved Solids)	Megalters Megalters	18,827 3,892	15,128	18,233 4,249	16, 5,
	- Ground water (Other water > 1000 mg/ L Total Dissolved Solids) - Total ground water withdrawn - Sexwater (Freshwater ≤ 1000 mg/L Total Dissolved Solids)	Megaliters Megaliters	3,892	3,435	0 4,249	5,
	Seawater (Pietriwater 5 1000 mg/L Total Dissolved Solids) Seawater (Other water 5 1000 mg/L Total Dissolved Solids) Total seawater withdrawn	Megalters Megalters	0	0	0	
	Produced water (Freshwater 5 1000 mg/L Total Dissolved Solids) Produced water (Other water > 1000 mg/L Total Dissolved Solids)	Megalters Megalters	0	0	0	
	Total produced water withdrawn Third-party water (Freshwater 5 1000 mg/L Total Dissolved Solids)	Megalters Megalters	0	0	0 1,465	2
	Third-party water (Other water > 1000 mg/L Total Dissolved Solids) Total third-party water withdrawn	Megalters Megalters	2,123	1,320	134 1,599 12,722	2
	Total volume of water withdrawn in water stressed areas - Surface water (Freshwater 5 1000 mg/L Total Dissolved Solds) - Surface water (Other water - 1000 mg/L Total Dissolved Solds)	Megaliters Megaliters	N/A N/A	N/A N/A	9,638	13
	- Suitake water (Presimues > 1000 mgL Total Dissolved Solds) - Suitake water (Differ water > 1000 mgL Total Dissolved Solds) - Total zufrace water withfram - Ground water (Presimues 1 0000 mgL Total Dissolved Solds)	Megaiters Megaiters	N/A N/A	N/A N/A	9.638 2,640	8
	Ground water (Other water > 1000 mg/ L Total Dissolved Solids) Total ground water withdrawn	Megaliters Megaliters	N/A	N/A	0 2,640	3
	Seawater (Frequences 1000 mg/L Total Dissolved Solids) Seawater (Other water > 1000 mg/L Total Dissolved Solids) Total seawater withdrawn	Megaliters Megaliters Megaliters	N/A N/A	N/A N/A	0	
	Iotal seawater withdrawn Produced water (Freshwater ± 1000 mg/L Total Dissolved Solids) Produced water (Other water > 1000 mg/L Total Dissolved Solids)	Megaiters Megaiters Megaiters	N/A	N/A	0	
	Total produced water withdrawn Third-party water (Freshwater \$1000 mplL Total Dissolved Solids)	Megalters Megalters	N/A N/A	N/A N/A	0 443	1
	Third-party water (Other water > 1000 mg/ L Total Dissolved Solids) Total third-party water withdrawn	Megaliters Megaliters	N/A N/A	NA	0 443	1
	Third-party water that is surface water Third-party water that is around water	Megalters Megalters	N/A N/A	N/A N/A	443	1
RI303-4	Third-party water that is seawater Third-party water that is produced water	Megaiters	N/A	N/A	0	
1000-1	Water Discharge ⁽⁹⁾⁽⁶⁾ Total volume of water discharge Surface water	Megaliters Megaliters	12,705 N/A	9,485 N/A	11,040 8,313	12
	- Ground water - Seawater	Megaliters Megaliters	N/A N/A	N/A N/A	0 21	
	Third-party water Total volume of freshwater discharge (\$ 1000 mg/L Total Dissolved Solids)	Megalters Megalters	N/A N/A	N/A N/A	2,707	2
	Total volume of other water discharge is 1000 mg/L Total Dissolved Solids) Total volume of freshwater discharge in water stressed areas (\$ 1000 mg/L Total Dissolved Solids) Total volume of other water discharge in water stressed areas (\$ 1000 mg/L Total Dissolved Solids)	Megaiters Megaiters Megaiters	N/A N/A	N/A N/A	2,689	1
RI303-5	Water Consumption ⁽⁶⁾ Total water consumption	Megaliters	12,137	10,398	13,040	12
	Total water consumption in water stressed areas Chance in water storace ⁽⁰⁾ () indicates necative chance	Megaliters Megaliters	N/A N/A	N/A N/A	6,435 109	7
	Water Intensity Water Intensity (Beverage) ⁽¹⁴⁾	hL/ NL	4.01	3.52	4.08	
	- Water intersity (Distillery) - Water intersity (Browery) - Water intersity (Olohi)	hL/hL hL/hL hL/hL	9.89 1.46 3.62	7.26 2.07 2.97	7.68 2.53 2.69	
	Water Intensity (Serverage - Thailand) ^(sa)	hL/hL	3.41	3.17	3.57	
	- Water intensity (Grand Royal Group) - Water intensity (Inwel House) Water Intensity (Food)	hL/ hL hL/ hL hL/ kg	N/A N/A 0.28	N/A N/A 0.22	11.42 15.19	
	Water Consumption Related Data				0.21	
	Total municipal water supplies (or from other water utilities) Withdrawal: Surface water (lakes, rivers, etc.)	Megalters Megalters	2,123 18,569	1,320 14,890	1,599 18,233	1
	Withdness: Groundwater Discharge: Surface water and groundwater returned to the source of extraction at similar or higher quality as raw water extracted based on TDS content as per GRI 303-3 & GRI 303-4)	Megaiters Megaiters	3,892	3,435	4,249 4,846	
RI305-1	Direct (Scope 1) GHG emissions	Metric tons CO2e	1,144,905	1,053,716		1,331
	Gross direct (Scope 1) GHG emissions Biogenic CO2 emissions	Metric tons CO ₂ e Metric tons CO ₂ e	901,067 243,837	826,801 226,915	927,649 444,090	881
11305-2	Energy indirect (Scope 2) GHG emissions Energy indirect (Scope 2) GHG emissions	Metric tons CO2e	179,078	163,317	186,695	180
1305-4	GHG emissions intensity ^[6] GHG emissions (Scope 1 and Scope 2)	Metric tons CO2e	1,080,145	990,119		1,062
	GHG emissions intensity (Beverage) ¹¹⁰ • GHG emissions intensity (Distillery)	kg CO_e/ hL kg CO_e/ hL	36.06 131.48	34.54 133.32	35.23 130.15	3
	GHG emissions intensity (Brewery) GHG emissions intensity (Dishi)	kg CO ₂ e/ hL kg CO ₂ e/ hL	19.87	21.68	21.88 15.49	2
	GHG emissions intensity (Semsuk) BHG emissions intensity (Reverane - Thailand) ⁽¹⁶⁾	kg CO ₂ e/ hL	5.12	4.39 34.54	4.60	3
	GHG emissions intensity (Grand Royal Group)	kg COye/ NL	N/A	N/A N/A	61.63	4
	GHG emissions intensity (Inver House) GHG emissions intensity (Food)	kg COye/ NL kg COye/ kg	N/A 1.12	N/A 0.85	60.26 0.85	5
1306-2	Waste by type and disposal method ⁽⁷⁾ Total weight of hazardous waste	Metric tons	N/A	318	185	
1306-2	Waste by type and disposal method ^(P) Total level/of a historicour waste - Reade - Reade - Reade - Reade - Reade	Metric tons Metric tons Metric tons Metric tons	N/A N/A N/A	318 1 173 31	185 6 93	
1306-2	Recycling Recovery, including energy recovery Indimation (mass burn)	Metric tons Metric tons Metric tons	N/A N/A N/A	173 31 11	185 6 93 59 1 18	
1306-2	- Recycliq - Recovery, Hedding energy recovery - Control Textment - Control Textment	Metric tons Metric tons Metric tons Metric tons Metric tons	N/A N/A N/A N/A	173 31 11 102 0	93 59 1 18 3 4	
1306-2	- Begoling - Begoling - Begoling temps recovery - Landit - Cancel Trained - Deng Virgenium - Den	Metric tons Metric tons Metric tons Metric tons Metric tons Metric tons Metric tons Metric tons	N/A N/A N/A N/A N/A N/A N/A	173 31 11 102 0 0 18455 121	93 59 1 18 3 3 4 63.071 1,950	2
1306-2	- Recycles - Recycles - Recover, Indian warsy: recovery - Schedarskin Insta Karl - Schedarskin Insta Karl - Desp Will geston - Carlos at State Schedarskin Insta - Reads - Read	Metric tons Metric tons	NIA NIA NIA NIA NIA NIA NIA NIA NIA	173 31 111 102 0 0 134155 121 10.051 864	93 59 1 1 8 3 4 53.071 1,950 18,404 18,404 12,194	2
1306-2		Metric tons Metric tons Metric tons Metric tons Metric tons Metric tons Metric tons Metric tons Metric tons	N/A N/A N/A N/A N/A N/A N/A N/A N/A	173 31 102 0 0 13155 121 10,051	90 59 1 1 8 3 4 4 1,350 18,404 12,194 226 3 8 5,238	2 18 12
1306-2 DJSI	- Recipion Landa L	Metric tons Metric tons	N/A	173 31 11 102 0 0 13155 121 10.051 864 346 67 1.706 0 0	90 59 1 1 8 3 4 3 0.07 1,950 19,404 12,194 2,286 3 3 5,238 10	2 18 12 4
11306-2 DJSI	- Begeling - Begeling - Begeling - Begeling - Leading - Leading - Leading - Control Testing - Contro	Metric tons Metric tons	NA	1733 31 102 0 0 13.155 121 10.051 864 67 1.21 120 121 10.051 121 120 121 121 120 121 121 120 121 121	903 599 1 188 3 4 1950 18,404 12,194 22,56 3 3 5,238 10 10 3,8,256 N/A	2 18 12 4
1306-2 DJSI	- Beychig - Beychig - Beychig - Beychig - Beychig - Jondi - Jo	Metric torus Metric torus	NA	173 311 111 112 0 0 0 0 1115 131 10261 864 67 1226 0 0 0 11473 346 07 1226 0 0 0 0 11473 346 07 1226 0 0 0 0 1415 131 111 112 112 112 112 112 112 112 112	93 59 1 1 18 3 4 19071 19071 19071 19071 19294 19295 19205 19205 19205 19205 19205 19205 19205 19205 19205 19205 19205 19205 19205 1	2 18 12 4
1306-2 DJSI	Beyching	Metric tons Metric tons	NA	173 311 112 102 0 0 0 113155 1211 10051 884 3346 346 346 346 0 0 0 0 113473 NA NA	90 59 1 18 3 4 307/1 1,950 18,404 12,194 236 38 5,238 10 38,256 N/A N/A	2 18 12 4 3 3
DJSI		Metric torus Metric torus	NA. NA.	1733 31 11 11 10 0 0 0 11 11 10 10 11 10 10 11 10 10	93 99 1 1 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	2, 18, 12, 4, 37 33,
DJSI	Begding Section S	Metric bors Metric bors	NA. NA.	173 31 11 10 0 0 0 1155 121 10061 884 366 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	883 991 191 192 193 193 194 195 195 195 195 195 195 195 195	377 2. 18 19 19 2 19 2 19 2 4 37 33 33 33 34

Correct development of a second product of an expendent of such development of a second product of second p