

Environment Performance Summary					
Performance	Unit	Quantity			Target
		2021	2022	2023	
Environmental policy and management systems					
Environmental management system (EMS): certification / verification					
Total ¹	%	33.3	33.3	33.3	
Third-party verification (By MACSI ²)	%	33.3	33.3	33.3	
ISO14001 certification (By MACSI ²)	%	33.3	33.3	33.3	
Resource use					
Raw material used					
Natural Gas	m ³	270,935,221.47	252,136,566.71	242,951,211.59	
Raw Water	m ³	1,895,475.20	1,824,400.36	1,866,353.00	
The reduction of water consumption in process					
RO rejected water recycle	m ³	113,151.30	113,556.80	89,702.50	
Water reduction by water recycle	%	5.97	6.22	4.81	> 4
Water withdrawal by source					
Surface water from rivers, lakes, natural ponds	m ³	0	0	0	
Groundwater from wells, boreholes	m ³	0	0	0	
Used quarry water collected in the quarry	m ³	0	0	0	
Third-party water /Municipal potable water	m ³	1,895,475.20	1,824,400.36	1,908,007.09	
External wastewater	m ³	0	0	0	
Harvested rainwater	m ³	0	0	0	
Sea water, water extracted from the sea or the ocean	m ³	0	0	0	
Total Water withdrawal	m ³	1,895,475.20	1,824,400.36	1,908,007.09	
Facilities' water withdrawal (not disclosing)					
Total facilities' water withdrawl	m ³	0	0	0	
Power generation water withdrawal / consumption intensity					
Power generation water withdrawl / consumption intensity	kWh/m ³	557.65	561.82	516.95	
Waste and pollutants					
Water discharge data by destination					
Ocean total discharge	m ³	0.00	0.00	0.00	
Surface Water total discharge	m ³	0.00	0.00	0.00	
Subsurface / well total discharge	m ³	0.00	0.00	0.00	

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Off-site water treatment total discharge	m ³	537,305.08	536,513.02	670,225.75	
Beneficial / other use total discharge	m ³	346,748.00	316,846.00	301,349.00	
Total Water discharge	m ³	884,053.08	853,359.02	971,574.75	
Facilities' water discharge (not disclosing)					
Facilities' water discharge total	m ³	0	0	0	
Water (effluent) discharg					
Waste Water Management - Waste Water Treatment Facilities of the Industrial Park - Green Area - RO Reject Water Recycle	m ³	537,305.08	536,531.02	670,225.75	
water (effluent) discharge by quality and destination					
pH	-	7.1 - 8.3	7.0 - 8.1	7.0 - 8.0	5.5 - 9.0
TDS	mg/l	515 - 1,030	492 - 1,736	638 - 1,344	< 3,000
SS	mg/l	< 5 - 53	< 5 - 91	< 5 - 9	< 200
Grease & Oil	mg/l	< 3.0	< 3.0	< 3.0	< 10.0
BOD ₅	mg/l	< 2.0 - 14.1	< 2.0 - 2.3	< 2.0 - 2.8	< 120
COD	mg/l	< 40 - 51	< 40 - 67	< 40 - 73	< 500
Temperature	°C	25 - 34	28 - 34	29 - 34	< 45
Air Emission					
NOx	ppm	13.17 - 86.3	18.75 - 97.74	30.5 - 70.99	≤ 110
SOx	ppm	0.26 - 1.60	0.13 - 0.87	0.07 - 1.30	≤ 18
TSP	mg/m ³	1.58-6.05	0.4-3.52	0.4-3.52	≤ 60
VOC	kg	0	0	0	
Waste generation					
Hazardous waste	tonnes	28.54	28.74	23.1	
Hazardous waste reduction	%	N/A	N/A	19.62	> 2
Non hazardous waste	tonnes	163.385	168.72	115.5	
Non hazardous waste reduction	%	N/A	N/A	31.54	> 10
Non recycled waste	tonnes	191.925	197.46	138.6	
Waste recycled	tonnes	13.822	12.231	20.386	

Notes for Environmental Dimension

1. Percentage of power projects in Thailand
2. Management System Certification Institute (Thailand) or (MASCI)