

Environmental Preservation

Environmental Performance



The UBE Group believes that tackling environmental issues to ensure sustainable social progress and fostering stakeholder trust by announcing outcomes are vital for sustainable corporate growth.

Overview of Group Environmental Impact (Fiscal 2016 through 2020)
 (Scope of data: UBE's domestic factories and laboratories and major domestic consolidated subsidiaries with factories (please see note 1))

Water Resource Usage
 Page 9 of the 2021 Integrated Report Supplementary Information (Environment and Safety) details water resource usage by source and water discharges by discharge location.



		2016	2017	2018	2019	Input 2020
Total energy (thousands of MWh)		22,070	21,980	21,970	22,140	20,920
Total raw materials (thousands of tons)		16,209	16,361	16,383	16,298	15,381
Water resources (Note 2) (million m ³)	Fresh water used	96	94	92	97	94
	Seawater used	108	115	106	115	108

https://www.ube-ind.co.jp/ube/en/ir/library/integrated_report/pdf/2021/integrated_report_environmental_safety_6.pdf



Business activities (manufacturing) of the UBE Group



		2016	2017	2018	2019	Output 2020
Airborne emissions	GHG (1,000 t - CO ₂ e/y)	12,300	12,300	12,010	12,110	11,270
	SOx*1 (t)	3,001	2,839	2,873	2,652	2,589
	NOx*2 (t)	14,834	14,949	16,149	16,071	15,274
	Dust (t)	393	341	356	371	392
	PRTR substances*3 (t)	140	162	198	180	190
Soil emissions	PRTR substances (t)	0	0	0	0	0
Waterborne emissions	Wastewater (million m ³)	156	162	147	163	152
	COD*4 (t)	724	747	642	705	658
	Total phosphorus (t)	10	11	9	11	10
	Total nitrogen (t)	500	519	468	466	420
	PRTR substances (t)	122	119	97	112	82
Industrial waste emissions	Off-site disposal volume (t)	7,550	6,561	6,730	6,463	6,347
	Recycled volume (t)	421,290	386,661	370,451	389,000	340,543

https://www.ube-ind.co.jp/ube/en/ir/library/integrated_report/pdf/2021/integrated_report_environmental_safety_3.pdf

Emissions Data by Facility
 Page 5 of the 2021 Integrated Report Supplementary Information (Environment and Safety) presents facility-specific emissions of SOx, NOx, dust, COD, total phosphorus, and total nitrogen.



We endeavor to safeguard the environment and comply with levels set through agreements with government bodies or with voluntary standards by stabilizing plant operations and by extensively controlling air and water emissions of pollutants, and also undertake ongoing environmental impact reduction activities. UBE plants are located along rivers, so the risks of water shortages are small.

However, each plant manages water consumption and discharges to use water more efficiently.

We will continue to engage in business activities that contribute to a recycling-based economy as part of environmental management, such as by tackling environmental issues, reducing and recycling industrial waste, and lowering chemical substance emissions.

Glossary

*1 Sulfur oxides (SOx) originate in the sulfur (S) component of fuels. Boilers are our main source of these oxides.

*2 Nitrogen oxides (NOx) stem from fuel combustion, primarily from Group boilers and cement kilns.

*3 Pollutant Release and Transfer Register (PRTR) Law: This legislation requires companies to identify business site chemical substance emissions and transfer volumes and report to the government. The Ministry of the Environment discloses the submitted information on its website. Such disclosure is designed to encourage voluntary efforts to improve chemical substance management.

*4 Chemical Oxygen Demand (COD): This is an indicator of water pollution by organic substances and represents the amount of oxygen consumed in the chemical oxidation of organic matter.

Notes: 1. Page 10 of the 2021 Integrated Report Supplementary Information (Environment and Safety) presents details of the scope of data.

2. Water resource inputs are in keeping with the Ministry of the Environment's Environmental Reporting Guidelines 2018. These inputs are withdrawal from external sources to business sites.