

Overview of Group Environmental Impact

Input

Category	Boundary	Unit	2016	2017	2018	2019	2020	2021	2022
Total energy	Group companies	thousands of MWh	22,070	21,980	21,970	22,140	20,920	21,340	7,841
Total raw materials		(thousands of tons)	16,209	16,361	16,383	16,298	15,381	15,819	2,177
Water resources		million m ³	96	94	92	97	94	96	68
		Seawater used	108	115	106	115	108	116	302

Output

Category	Boundary	Unit	2016	2017	2018	2019	2020	2021	2022	
Airborne emissions	Group companies	GHG	10,000 t - CO ₂ e/yr	1,230	1,230	1,201	1,211	1,127	1,184	382
		SO _x	t	3,001	2,839	2,873	2,652	2,589	2,296	1,095
		NO _x	t	14,834	14,949	16,149	16,071	15,274	14,956	3,275
		Dust	t	393	341	356	371	392	364	115
		PRTR substances	t	209	212	255	226	238	194	143
Soil emissions	Group companies	PRTR substances	t	0	0	0	0	0	0	
Waterborne emissions	Group companies	Wastewater	million m ³	156	162	147	163	152	159	345
		COD	t	724	747	642	705	658	687	1,347
		Total phosphorus	t	10	11	9	11	10	11	18
		Total nitrogen	t	500	519	468	466	420	455	466
		PRTR substances	t	122	119	97	112	82	91	72
Industrial waste emissions	Group companies	Off-site disposal volume	t	7,550	6,561	6,730	6,463	6,347	5,892	5,159
		Recycled volume	t	421,290	386,661	370,451	389,000	339,834	378,917	214,755

UBE Group Water Resource Usage

Water resource inputs (Note)

Category	Boundary	Unit	2016	2017	2018	2019	2020	2021	2022
UBE	Ube Corporation	Tap water	0.4	0.4	0.4	0.4	0.4	0.4	0.2
		Groundwater	0	0	0	0	0	0	0
		Industrial water	74	73	69	73	71	64	54
		Seawater	108	115	106	115	108	116	302
Subtotal		182	188.4	175.4	188.4	179.4	180.4	357	
Group companies	Group companies	Tap water	0.2	0.2	0.2	0.3	0.3	0.2	0.0
		Groundwater	1.9	2	2	2.1	2.1	2.2	2
		Industrial water	20	18	20	22	21	29	11
		Seawater	0	0	0	0	0	0	0
Subtotal		22.1	21	22.2	24.4	23.4	32	13	
Total (UBE Group)	UBE Group		204.1	209.4	197.6	212	202	212.4	369

Water discharges

Category	Boundary	Unit	2016	2017	2018	2019	2020	2021	2022
UBE	Ube Corporation	Sewers	0	0	0	0	0	0	0
		Rivers and lakes	0	0	0	0	0	0	0.02
		Ocean areas	152	158	143	159	148	154	340
Subtotal		152	158	143	159	148	154	340	
Group companies	Group companies	Sewers	0	0	0	0.1	0.1	0	0.04
		Rivers and lakes	2	2.1	2.1	2.1	2.1	2.2	2.1
		Ocean areas	2.1	2.2	2.1	2	1.9	2.9	2.7
Subtotal		4.1	4.3	4.2	4.2	4.1	5.1	4.8	
Total (UBE Group)	UBE Group		156	162	147	163.2	152.1	159.1	345

Note: 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.

Environmental Preservation: Environmental Accounting

Environmental Preservation Costs

Classification	Category	Main Activity	Unit	2019	2020	2021	2022	2019	2020	2021	2022
				Capital Investment				Costs			
Cost by business area	Pollution prevention	Investing in and maintaining energy-saving facilities	¥100 million	7.9	12.2	13.6	9.6	41.0	43.8	44.2	36.2
		Investing in and maintaining air and water pollution prevention facilities		87.5	11.7	6.1	2.7	21.5	39.4	33.4	1.5
		Global environment preservation		4.3	3.4	2.6	0.1	36.5	34.6	32.1	8.7
Upstream/downstream costs		Container/packaging recycling, green purchasing		0.2	0.0	0.0	0.0	4.5	4.8	9.0	5.4
Costs of management activities		Acquiring, running, and maintaining environmental		0.4	0.1	0.0	0.0	5.7	5.8	5.1	3.1
Research and development costs		R&D of environmentally friendly products and technologies		0.0	0.0	0.0	0.0	2.7	2.9	1.7	0.8
Costs of social activities		Greening and beautifying offices/facilities and their surroundings		0.3	0.0	0.2	0.2	2.1	2.4	3.9	0.8
Costs of cleaning up environment damage		Payment of environment-related levy		0.0	0.0	0.0	0.0	1.5	1.4	1.3	0.9
total				100.6	27.4	22.5	12.6	115.5	135.1	130.7	57.4

Economic Effect

Classification	Category	Main Activity	Unit	2019	2020	2021	2022
Income effect		Proceeds from sales of marketable waste products	¥100 million	28.8	45.0	42.1	6.7
Savings effect		Savings achieved through resource recycling and energy conservation		63.1	58.2	66.4	31.5

Environmental Preservation: Environmental Impact Data by Facility
Fiscal 2019 and 2020 Environmental Impact Data by Facility

		Emissions into the Atmosphere											
		SOx*1 Emissions				NOx*4 Emissions				Dust Emissions			
Category	Unit	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022
Sakai Factory / Osaka Research & Development Center		0.0	0.0	0.0	0.0	1.3	1.4	1.6	1.4	0.1	0.1	0.1	0
Ube Chemical Factory east and west area		1,523	1,572	1,495	17	3,546	3,331	3,327	59	101	118	97	2.1
Ube Chemical Factory Fujimagari area		541	451	335	530	395	295	363	333	2.7	1.3	1.5	2.5
Power Mngement Dept.(private power generation)		-	-	-	532	-	-	-	2755	-	-	-	100
Ube Electronic and Industrial Materials Factory (Former Meiwa Plastic Industries, Ltd.)		-	-	-	-	-	-	-	-	-	-	-	-
Ube Research Laboratory / Pharmaceuticals Research Laboratory		-	-	-	-	-	-	-	-	-	-	-	-
Future Tech Laboratory		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal (UBE)		2,064	2,023	1,830	1,079	3,941	3,627	3,692	3,149	104	119	99	105
API Corporation					2.6				5.9				0.1
UBE Elastomer Co. Ltd.		-	-	0.7	0.6	-	-	37	31.7	-	-	0.2	0.2
UBE Film, Ltd.		-	-	-	-	-	-	-	-	-	-	-	-
UBE Hydrogen Peroxide Limited		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UBE EXSYMO CO., LTD.		0.0	0.0	0.0	0.0	0.4	0.5	0.6	0.6	0.1	0.1	0.1	0.1
UBE Machinery Corporation, Ltd.		0.1	0.1	0.1	0.1	-	-	-	-	-	-	-	-
UBE Steel Co., Ltd.		13	12	12	13	71	70	88	88	7.9	6.9	7.7	9.4
Fukushima, Ltd.		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal (Group companies)		13	12	13	16	71	70.5	126	126	8	7	8	9.8
Total (UBE Group)	t	2,077	2,035	1,843	1,095	4,013	3,698	3,817	3,275	112	126	107	115

overseas

UBE Corporation Europa, S.A. Unipersonal		79	80	84	8	859	497	443	442	12	9.0	8.6	5.5
UBE Chemical (Asia) Public Company Limited	t	8.3	4.8	6.8	3.5	40	40	32	20	4.4	5.1	3.3	4.7
THAI SYNTHETIC RUBBERS COMPANY LIMITED		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.9	1.1
UBE Fine Chemicals (Asia) Co., Ltd.		0.0	0.0	0.0	0.0	0.0	4.6	5.5	4.8	0.0	0.1	0.2	0.2
Total	t	87	85	91	11	899	542	481	468	17	15	13	11

		Emissions into Water											
		COD*3 Emissions				Total Phosphorus Emissions				Total Nitrogen Emissions			
Category	Unit	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022
Sakai Factory / Osaka Research & Development Center		1.0	1.0	0.6	0.7	0.0	0.1	0.0	0.0	0.7	0.8	0.6	0.7
Ube Chemical Factory east and west area		421.8	415	424	398	5.6	5.1	5.3	5.5	392	359	393	352
Ube Chemical Factory Fujimagari area		246.6	205	226	203	4.9	4.3	5.1	5	63	51	53	50
Power Mngement Dept.(private power generation)		-	-	-	713	-	-	-	6.4	-	-	-	48
Ube Electronic and Industria Materials Factory (Former Meiwa Plastic Industries, Ltd.)		-	-	-	0.0	-	-	-	0.0	-	-	-	0.0
Ube Research Laboratory / Pharmaceuticals Research Laboratory		0.1	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2	0.2	0.1	0.2
Future Tech Research Laboratory		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal (UBE)		670	621	651	1,315	11	10	10	17	457	411	447	451
API Corporation					12.6				0.3				10.2
UBE Elastomer Co. Ltd.		-	-	12	11.5	-	-	0.1	0.1	-	-	3.5	3.3
UBE Film, Ltd.		-	-	-	-	-	-	-	-	-	-	-	-
UBE Hydrogen Peroxide Limited		0.4	0.3	0.4	0.4	0.0	0.0	0.4	0.0	0.4	0.3	0.4	0.3
UBE EXSYMO CO., LTD.		1.2	3.5	3.4	3.7	-	-	-	0.0	-	-	-	0.0
UBE Machinery Corporation, Ltd.		1.1	1.4	1.2	1.1	0.2	0.3	0.2	0.2	1.7	2.1	1.7	1.4
UBE Steel Co., Ltd.		1.9	2.3	2.1	2.6	-	-	-	-	-	-	-	-
Fukushima, Ltd.		-	-	-	-	-	-	-	-	-	-	-	-
Subtotal (Group companies)		4.6	7.5	19	32	0.2	0.3	0.7	0.6	2.1	2.4	5.6	15.2
Total (UBE Group)	t	674	658	670	1,347	11	10	11	18	459	413	452	466

overseas

UBE Corporation Europa, S.A. Unipersonal		129	277	145	130	0.7	1.4	0.9	1	62	170	31	58
UBE Chemical (Asia) Public Company Limited	t	64	42	36	29	0.6	1.3	0.6	0.7	8.1	8.6	2.7	1.9
THAI SYNTHETIC RUBBERS COMPANY LIMITED		26	19	21	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UBE Fine Chemicals (Asia) Co., Ltd.		-	-	-	-	-	-	-	-	-	-	-	-
Total	t	219	338	202	177	1.3	2.7	1.5	2	70	179	34	60

Environmental Preservation:PRTR

Total Volume of PRTR SubstancesEmitted/Transferred in Fiscal 2020

	Handling Volume	Emissions Volume (Tons)				Increase/Decrease Rate Compared with Fiscal 2019 (Total Emissions)	Transfer Volume (Tons)	Number of PRTR Substances
		Atmosphere	Public Water	Soil	Total			
UBE	274,401	78.9	71.7	0.0	150.6	(15.4)%	2142.4	56
Other Group companies	30,038	159.0	10.5	0.0	169.5	5.9%	1,218.4	25
Total (UBE Group)	304,439	237.9	82.2	0.0	320.1	-5.3%	3,360.8	66

Total Volume of PRTR SubstancesEmitted/Transferred in Fiscal 2021

	Handling Volume	Emissions Volume (Tons)				Increase/Decrease Rate Compared with Fiscal 2020 (Total Emissions)	Transfer Volume (Tons)	Number of PRTR Substances
		Atmosphere	Public Water	Soil	Total			
UBE	197,015	87.9	80.9	0.0	168.8	12.1%	1,999.0	40
Other Group companies	143,448	105.4	10.6	0.0	116.0	-31.6%	2,025.6	29
Total (UBE Group)	340,463	193.3	91.5	0.0	284.8	-11.0%	4,024.6	58

Total Volume of PRTR Substances Emitted/Transferred in Fiscal 2022

	Handling Volume	Emissions Volume (Tons)				Increase/Decrease Rate Compared with Fiscal 2020 (Total Emissions)	Transfer Volume (Tons)	Number of PRTR Substances
		Atmosphere	Public Water	Soil	Total			
UBE	186,418	94.4	71.6	0.0	166.0	10.2%	3,462.0	55
Other Group companies	107,397	49.0	0.0	0.0	49.0	-71.1%	262.0	13
Total (UBE Group)	293,816	143.4	71.6	0.0	215.0	-32.8%	3,724.0	68

Volumes of Individual PRTR Substances Emitted/Transferred in Fiscal 2020(Top 10 by UBE's Emission Volumes and Dioxins)

Ordinance Designation No.	Chemical Substance	CAS No.	Unit	Handling Volume	Total Emissions Volume (Tons)				Increase/Decrease Rate Compared with Fiscal 2019 (Total Emissions)	Transfer Volume (Tons)
					Atmosphere	Public Water	Soil	Total		
300	Toluene	108-88-3	t	868	68.9	11.1	0.0	80.0	(9.3)%	361.5
76	Epsilon-caprolactam	105-60-2		116,231	0.0	64.1	0.0	64.1	(30.4)%	783.4
240	Styrene	100-42-5		253	42.8	0.0	0.0	42.8	7.5%	0.5
134	Vinyl acetate	108-05-4		6,246	24.8	0.0	0.0	24.8	22.8%	0.0
80	Xylene	-		155	21.2	0.0	0.0	21.2	1.1%	9.0
53	Ethylbenzene	100-41-4		23	17.3	0.0	0.0	17.3	15.3%	7.9
392	Normal hexane	110-54-3		189	14.7	0.0	0.0	14.7	-10.5%	51.1
104	Chlorodifluoromethane	75-45-6		13	12.3	0.0	0.0	12.3	288.0%	1.1
400	Benzene	71-43-2		92	9.4	0.2	0.0	9.6	11.6%	3.3
213	N,N-dimethylacetamide	127-19-5		677	9.3	0.0	0.0	9.3	10.7%	287.7
243	Dioxins (Note) mg-TEQ/year	-	-	182.2	3.4	0.0	185.6	(40.7)%	0.0	

Note: Contains various compounds

Volumes of Individual PRTR Substances Emitted/Transferred in Fiscal 2021(Top 10 by UBE's Emission Volumes and Dioxins)

Ordinance Designation No.	Chemical Substance	CAS No.	Unit	Handling Volume	Total Emissions Volume (Tons)				Increase/Decrease Rate Compared with Fiscal 2020 (Total Emissions)	Transfer Volume (Tons)
					Atmosphere	Public Water	Soil	Total		
300	Toluene	108-88-3	t	956	72.2	15.4	0.0	87.6	15.0%	284
76	Epsilon-caprolactam	105-60-2		136,689	0.0	67.5	0.0	67.5	5.3%	699
134	Ethyl acetate	108-05-4		5,649	22.5	0.0	0.0	22.5	-9.3%	0.0
392	Normal hexane	110-54-3		185	15.7	0.0	0.0	15.7	6.8%	12.2
80	Xylene	-		160	13.1	0.0	0.0	13.1	-32.5%	9.9
104	Chlorodifluoromethane	75-45-6		12.7	12.3	0.0	0.0	12.3	0.0%	0.4
128	Chloromethane	74-87-3		12.2	12.2	0.0	0.0	12.2	37.1%	0.0
53	Ethylbenzene	100-41-4		23.5	10.5	0.0	0.0	10.5	-32.7%	8.9
400	Benzene	71-43-2		72.1	10.3	0.1	0.0	10.4	8.3%	0.0
213	N,N-dimethylacetamide	127-19-5		755	9.8	0.0	0.0	9.8	5.4%	296
243	Dioxins (Note) mg-TEQ/year	-	-	444.2	8.9	0.0	453.1	144.1%	0.0	

Note: Contains various compounds

Volumes of Individual PRTR Substances Emitted/Transferred in Fiscal 2022 (Top 10 by UBE's Emission Volumes and Dioxins)

Ordinance Designation No.	Chemical Substance	CAS No.	Unit	Handling Volume	Total Emissions Volume (Tons)				Increase/Decrease Rate Compared with Fiscal 2020 (Total Emissions)	Transfer Volume (Tons)
					Atmosphere	Public Water	Soil	Total		
300	Toluene	108-88-3	t	835	55.4	13.9	0.0	69.3	-13.3%	203
76	Epsilon-caprolactam	105-60-2		97,916	0.0	49.9	0.0	49.9	-22.2%	251
104	Chlorodifluoromethane	75-45-6		20	20.3	0.0	0.0	20.3	17.2%	0.0
400	Benzene	71-43-2		66	12.9	0.1	0.0	13.0		0.0
128	Chloromethane	74-87-3		12	12.3	0.0	0.0	12.3	27.9%	0.0
80	Xylene	-		128.4	10.4	0.0	0.0	10.4		11.4
53	Ethylbenzene	100-41-4		23.5	9.4	0.0	0.0	9.4	-55.8%	10.7
213	N,N-dimethylacetamide	127-19-5		605.3	8.2	0.0	0.0	8.2	-33.5%	267.6
240	Styrene	100-42-5		185.7	4.9	0.0	0.0	4.9	-88.5%	0.6
405	Boron compound	-		27	0.1	4.3	0.0	4.4	-52.8%	6
243	Dioxins (Note) mg-TEQ/year	-	-	83.3	2.5	0.0	85.8	-53.8%	0.0	

Note: Contains various compounds

Treatment of Industrial Waste

FY	Unit	Industrial waste generated	in-house			Waste discharged from factories	Contracted		
			reduction	recycling	On-site landfill amount		reduction	recycling	Waste for external final disposal
2016	t	571,909	128,240	287,633	310	155,726	14,519	133,657	7,550
2017	t	556,522	142,646	254,896	284	158,696	20,370	131,765	6,561
2018	t	518,791	120,718	242,835	207	155,031	20,685	127,616	6,730
2019	t	561,591	145,425	247,568	263	168,335	20,440	141,432	6,463
2020	t	476,127	105,940	220,559	126	149,502	23,171	119,984	6,347
2021	t	522,644	114,866	233,175	127	174,476	22,732	145,849	5,895
2022	t	285,780	46,743	40,656	706	197,676	18,418	174,099	5,159

Environmental Issues:Tackling Global Warming
GHG Emissions

Category	Boundary	Unit	2018	2019	2020	2021	2022	
Scope 1	*1	kt-CO2e	11,250	11,400 ※3	10,690	3,790 (11,250)	3,390	Direct GHG emissions from a reporting entity, due to fuel use, etc.
Scope 2	*1	kt-CO2e	750	700※3	580	520 (590)	430	Indirect GHG emissions from electricity and heat purchased from other entities
Scope 3	※2	kt-CO2e	15,550	15,100	13,470	2,480	12,230	Indirect GHG emissions throughout the supply chain, such as those that occur during material procurement, transport and product processing, use and disposal
Total		kt-CO2e	27,550	27,200	24,740	6,790	16,050	

Notes *1 Factories designated for energy management in scope of consolidation and major overseas factories (Thailand and Spain)

*2 Factories designated for energy management in scope of consolidation in Japan, calculated based on the Basic Guidelines on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain (Ministry of the Environment and Ministry of Economy, Trade, and Industry)

The figures in parentheses are the figures aggregated in the same boundary as the previous year, including the former construction material Co of the in-house company.

GHG Emissions by Company in 2020

Category	Unit	Scope 1	Scope 2	Total
Chemicals Company	kt-CO2e	2,970	510	3,480
Domestic		2,150	200	2,350
Thailand		410	290	700
Spain		410	20	430
Construction Materials Company		7,530	70	7,600
Machinery Company		190	10	200
Total		10,690	580	11,270

GHG Emissions by Department in 2021

Category	Unit	Scope 1	Scope 2	Total
Chemicals Company	kt-CO2e	3,590	510	4,100
Domestic		2,790	200	2,990
Thailand		440	310	760
Spain		360	0	360
Machinery Company		200	10	210
Total		3,790	520	4,310

GHG Emissions by Department in 2022

Category	Unit	Scope 1	Scope 2	Total
Chemicals Company	kt-CO2e	3,220	410	3,630
Domestic		2,350	120	2,470
Thailand		600	280	880
Spain		270	10	280
Machinery Company		170	20	190
Total		3,390	430	3,820

Scope 3 Emissions by Category

Category	Unit	2019	2020	2021	2022	
1 Purchased goods and services	kt-CO2e	2,180	2,040	1,100	2,490	
2 Capital goods					70	
3 Fuel and energy-related activities not included in Scope 1 or Scope 2					300	
4 Upstream transportation & distribution					140	
5 Waste generated in operations					40	
6 Business travel					10	
7 Employee commuting					10	
8 Upstream leased assets					0	
9 Downstream transportation & distribution					70	
10 Processing of sold products			200	180	180	460
11 Use of sold products			8,960	7,650	1,200	1,630
12 End-of-life treatment of sold products						910
13 Downstream leased assets						-
14 Franchises						-
15 Investments						6,110
Total		11,340	9,870	2,480	12,230	

※ The data after FY2021 is aggregated data of UBE Group offices in Japan, not including the in-house company of the former construction materials.

Emissions Data by GHG Category

Category	Unit	2019	2020	2021	2022
CO ₂	kt-CO2e	11,230	10,410	3,390	3,140
Breakdown Energy-derived CO ₂				●2,160	
Non-energy-derived CO ₂ (including waste-derived CO ₂)				1,230	
CH ₄ ※1		10	10	0	0
N ₂ O		870	850	920	680
HFC※1		0	0	0	0
PFC		0	0	0	0
SF ₆ ※1		0	0	0	0
NF ₃		0	0	0	0
Total			12,110	11,270	4,310

※1 less than 10,000t-CO2e

※ The data after FY2021 is aggregated data of UBE Group offices in Japan, not including the in-house company of the former construction materials.

Figures marked with ● are guaranteed by third-party verification. For details, please refer to the guarantee document.

GHG Emission Intensity (GHG emissions per unit of production)

Category	Unit	2019	2020	2021	2022
GHG emission intensity	t-CO2e/t-Lc	3.282	3.263	2.251	2.733

※ Construction Materials Company: CO₂ emission intensity (excluding waste) for Ube, Kanda, and Isa cement factories totaled 710kg-CO₂e/t-cement Intensity for periodical reports of production value under Energy Conservation

Unit: t-CO₂/t-Lc is defined as CO₂ emissions (metric tons) per unit of lactam equivalent production volume (metric tons)

Energy Consumption Data

Category	Unit	2019		2020		2021		2022		Notes
		Total	Derived from Renewable Energy	Total	Derived from Renewable Energy	Total	Derived from Renewable Energy	Total	Derived from Renewable Energy	
Fuel consumption	MWh/year	20,140,000	500,000	19,030,000	670,000	8,417,000	0	6,131,000	0	Biomass Power from renewable energy
Purchased electricity consumption		920,000	0	840,000	60,000	800,000	176,000	629,000	160,000	
Purchased steam consumption		1,080,000	0	1,050,000	0	1,425,000	0	1,079,000	0	
Private power generation (renewable energy)		1,000	1,000	2,000	2,000	2,000	2,000	2,000	2,000	Solar power
Total		22,140,000	500,000	20,920,000	730,000	10,644,000	178,000	7,841,000	162,000	

Totals may not add up because numbers are rounded off.

※ The data after FY2021 is aggregated data of UBE Group offices in Japan, not including the in-house company of the former construction materials.

Energy Type Consumption Data

Category	Unit	2019	2020	2021	2022
Thermal coal	MWh/year	17,400,000	16,170,000	6,963,000	5,144,000
Kerosene and light oil		400,000	370,000	263,000	157,000
Liquefied natural gas		590,000	650,000	626,000	391,000
Liquefied petroleum gas		150,000	130,000	138,000	129,000
Petroleum coke		550,000	520,000	0	0
Heavy oil		320,000	270,000	201,000	122,000
Gas and oil by-products		230,000	250,000	226,000	188,000
Biomass		500,000	670,000	0	0
Total		20,140,000	19,030,000	8,417,000	6,131,000

※ The data after FY2021 is aggregated data of UBE Group offices in Japan, not including the in-house company of the former construction materials.

UBE management system acquisitions for the environment were as shown in the table below.

*See [here](#) for the occupational safety and health management system (Society)

Environmental Management System (EMS) Acquisitions (Acquisition rate*: 92%)

Companies	Business Sites	EMS	Year and Month of Acquisition	Registration Agencies
UBE Corporation	Ube Chemical Factory	ISO14001	March 2000	Lloyd's Register Quality Assurance Limited (LRQA)
	Ube Chemical Factory Fujimagari area	ISO14001	March 2001	Lloyd's Register Quality Assurance Limited (LRQA)
	Sakai Factory	ISO14001	February 2000	Lloyd's Register Quality Assurance Limited (LRQA)
	Ube Electric and Industrial Materials Factory	ISO14001	April 2002	The High Pressure Gas Safety Institute of Japan
	Power Management Dept.	ISO14001	January 2014	Japan Quality Assurance Organization (JQA)
	Ube Research Laboratory and Pharmaceutical Research Laboratory	ISO14001	October 2021	Lloyd's Register Quality Assurance Limited (LRQA)
	Future Tech Laboratory	ISO14001	December 1999	GCC Japan
Ube Logistics Service, Ltd.	Ube Site ¹	ISO14001	March 2000	Lloyd's Register Quality Assurance Limited (LRQA)
	Sakai Site ² · Nagoya Site ²	ISO14001	February 2000	Lloyd's Register Quality Assurance Limited (LRQA)
	Chiba Site ³	ISO14001	July 1999	Japan Chemical Quality Assurance Ltd. (JCQA)
UBE FILM ,LTD.	Headquarters and Onoda Factory	ISO14001	April 2004	Perry Johnson Registrars, Inc.
	Narita Factory	ISO14001	October 2007	Perry Johnson Registrars, Inc.
	Sano Factory	ISO14001	April 2023	Perry Johnson Registrars, Inc.
UBE Hydrogen Peroxide, Ltd.	Ube Factory	ISO14001	December 2003	Japan Chemical Quality Assurance Ltd. (JCQA)
UBE EXSYMO CO., LTD.	Gifu Site	ISO14001	January 2003	Japan Quality Assurance Organization (JQA)
	Fukushima Site	ISO14001	December 2001	Japan Quality Assurance Organization (JQA)
Ube Maxell Co., Ltd.	Ube Site ¹	ISO14001	March 2000	Lloyd's Register Quality Assurance Limited (LRQA)
	Sakai Site ²	ISO14001	February 2000	Lloyd's Register Quality Assurance Limited (LRQA)
UBE Scientific Analysis Laboratory, Inc.	Ube erea and Chiba erea	ISO14001	September 2022	Japan Quality Assurance Organization (JQA)
UBE Elastomer Co. Ltd.	Chiba Factory	ISO14001	July 1999	Japan Chemical Quality Assurance Ltd. (JCQA)
UBE MACHINERY CORPORATION, Ltd.	Headquaters Factory and Nagoya Site	ISO14001	November 1999	Lloyd's Register Quality Assurance Limited (LRQA)
T&U ELECTRONICS CO.,LTD.	Headquaters Factory	ISO14001	October 2001	GCC Japan
UBE STEEL CO., LTD.	Headquaters Factory	ISO14001	March 2005	Lloyd's Register Quality Assurance Limited (LRQA)
FUKUSHIMA LTD.	Headquaters Factory and Tokyo Office	ISO14001	February 1998	Japan Quality Assurance Organization (JQA)

* Percentage of domestic plants and laboratories of UBE Corporation, Ltd. and consolidated subsidiaries that operate this management system

- 1 Included in the certification scope of UBE Corporation Ube Chemical Factory
- 2 Included in the certification scope of UBE Corporation Sakai Factory
- 3 Included in the certification scope of UBE Elastomer Co., Ltd. Chiba Plant