ESG Data Collection

Kureha and Kureha Group

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Target companies

- Kureha Corporation
- · Kureha Group Companies (28 Consolidated Subsidiaries)
 - 17 Group Companies in Japan
 - 11 Overseas Group Companies

Reporting period

- Listed by item
- · The number of employees is as of the end of each fiscal year

August 2023 Kureha Corporation

• Environment

Energy usage, by type (Kureha)								
	Energy usage							
	Unit	FY2013	FY2018	FY2019	FY2020	FY2021	FY2022	
Electricity (purchased)	1,000 GJ	754	793	581	605	764	871	
Fuel and heat	1,000 GJ	4,950	4,173	4,369	4,369	4,990	4,571	
Total	1,000 GJ	5,704	4,966	4,950	4,975	5,254	5,442	
Crude oil equivalent	1,000 kL	147	128	128	128	136	140	
vs. Previous year	%	_	98.4	99.7	100.5	105.6	103.6	
vs. FY2013	%	100.0	87.1	86.8	87.2	92.1	95.4	

Energy sales volume, by type (Kure	Energy sales volume, by type (Kureha)										
		Energy sales volume									
	Unit	FY2013	FY2018	FY2019	FY2020	FY2021	FY2022				
Electricity	1,000 GJ	372	366	388	369	374	363				
Industrial steam	1,000 GJ	8.4	6.5	9.4	8.1	8.6	13.4				
Total	1,000 GJ	380	372	398	378	382	377				
Crude oil equivalent	1,000 kL	9.8	9.6	10.3	9.7	9.9	9.7				

Energy usage, by intensity: comparison to previous fiscal year, 5 fiscal year average (Kureha)										
Unit FY2018 FY2019 FY2020 FY2021 FY2022 5 fiscal year average intensi										
vs. Previous year % — 101.2 104.2 94.5 99.3 99.7										

Benchmark index status (Kureha)								
Sector	Benchmark index tatus							
Name of target business	Unit	FY2013	FY2018	FY2019	FY2020	FY2021	FY2022	
Alkali industry	GJ/t	3.62	3.65	3.62	3.64	3.67	3.43	

Energy consumption (Kureha Group)										
		Energy usage								
	Unit	FY2013	FY2018	FY2019	FY2020	FY2021	FY2022			
Kureha	Crude oil equivalent 1,000 kL	147	128	128	124	136	140			
Group Companies in Japan	Crude oil equivalent 1,000 kL	13	7	7	8	7	8			
Overseas Group Companies	Crude oil equivalent 1,000 kL	10	15	14	14	15	14			
Total	Crude oil equivalent 1,000 kL	170	150	149	146	157	161			
vs. Previous year	%	-	98.6	99.1	98.0	107.9	102.7			
vs. FY2013	%	100.0	88.2	87.4	85.7	92.4	94.9			

CO ₂ generated from business activi	CO ₂ generated from business activities (Kureha)										
	CO_2 emission volume										
	Unit FY2013 FY2018 FY2019 FY2020 FY2					FY2021	FY2022				
Head office, other offices	1,000 t-CO ₂	4	3	2	2	1	1				
The Iwaki Factory	1,000 t-CO ₂	427	367	375	354	370	385				
The plastics processing factory	1,000 t-CO ₂	13	10	9	7	7	7				
Total	1,000 t-CO ₂	444	380	386	363	377	393				
vs. Previous year	%	_	95.6	101.7	93.9	104.0	104.3				
vs. FY2013	%	100.0	85.6	87.1	81.8	85.0	88.7				

				$\mathrm{CO}_2\mathrm{e}$	mission volur	ne		
		Unit	FY2013	FY2018	FY2019	FY2020	FY2021	FY2022
	Kureha	1,000 t-CO ₂	426	362	376	363	379	393
Energy- related	Group Companies in Japan	1,000 t-CO ₂	21	22	23	21	20	22
	Overseas Group Companies	1,000 t-CO ₂	18	30	28	28	30	26
Energy-related—Kureha Group total		1,000 t-CO ₂	465	414	428	412	429	442
vs. Previous year		%		94.7	103.4	96.3	104.1	103.1
vs. FY2013		%	100.0	89.0	92.0	88.6	92.2	95.0
	Kureha	1,000 t-CO ₂	13	9	10	9	9	0.1
Non-energy- related	Group Companies in Japan	1,000 t-CO ₂	164	146	148	138	145	100
	Overseas Group Companies	1,000 t-CO ₂	0	0	0	0	0	0
Non-energy-rel Group Compan	ated—Kureha and ies in Japan	1,000 t-CO ₂	177	155	158	147	154	101
vs. Previous y	rear	%	_	100.8	102.2	92.7	104.9	65.3
vs. FY2013		%	100.0	87.6	89.5	82.9	87.0	56.8
Total (Energy-r related)	elated + Non-energy-	1,000 t-CO ₂	642	569	586	559	583	543
vs. Previous y	vear	%	_	96.3	103.0	95.3	104.3	93.1
vs. FY2013		%	100.0	88.6	91.3	87.0	90.8	84.5

			CO ₂ emission volume									
				CO ₂ e.	liiission voiu.	me						
		Unit	FY2013	FY2018	FY2019	FY2020	FY2021	FY2022				
	Kureha	1,000 t-CO ₂	_	337	356	340	359	355				
Scope 1*	Group Companies in Japan	1,000 t-CO ₂	_	162	166	154	160	103				
	Overseas Group Companies	1,000 t-CO ₂	_	5	4	4	4	3				
Scope 1 Kureha Group total		1,000 t-CO ₂	_	504	526	499	523	462				
vs. Previous year		%	1	98.6	104.3	94.8	104.8	88.3				
	Kureha	1,000 t-CO ₂		42	30	31	31	38				
Scope 2	Group Companies in Japan	1,000 t-CO ₂	-	6	6	6	5	20				
	Overseas Group Companies	1,000 t-CO ₂	-	25	24	24	26	23				
Scope 2 Kur	eha Group total	1,000 t-CO ₂	_	74	60	61	62	81				
vs. Previous	year	%		92.0	81.9	101.2	102.3	129.3				
Total of Scope 1 and Scope 2		1,000 t-CO ₂	1	578	586	559	585	542				
vs. Previous year		%	_	97.7	101.5	95.5	104.6	92.7				

GHG Emission	ns by Scope (Kureha)			
		Unit	FY2021 ²	FY2022
Scope 1		1,000 t-CO ₂	359	355
Scope 2		1,000 t-CO ₂	31	38
	Category 1: Purchased goods and services	1,000 t-CO ₂	261	303
	Category 2: Capital goods	1,000 t-CO ₂	9	17
	Category 3: Fuel- and energy-related activities	1,000 t-CO ₂	36	37
Scope 3 ¹	Category 4: Upstream transportation and distribution	1,000 t-CO ₂	91	75
Scope 3	Category 5: Waste generated in operations	1,000 t-CO ₂	0.7	1
	Category 6: Business travel	1,000 t-CO ₂	0.2	0.2
	Category 7: Employee commuting	1,000 t-CO ₂	0.7	0.7
	Category 12: End-of-life treatment of sold products	1,000 t-CO ₂	58	55
Cotal of Scope	1, Scope 2 and Scope 3	1,000 t-CO ₂	847	883

^{1.} Scope 3; Calculations are fundamentally based on database emissions intensity. The database used as reference is "IDEAv2 (for calculating GHG emissions through supply chain) ver. 2.3" or "Ministry of the Environment database: Emission Intensity Database for Calculating Greenhouse Gas Emissions of Organizations through Supply Chains ver. 3.2".

None of our businesses fall into the following categories: Category 8: Upstream leased assets, Category 13: Downstream leased assets, and Category 14: Franchises. Category 9: Downstream transportation and distribution, Category 10: Processing of sold products, and Category 11: Use of sold products, are not yet calculated because, although they are all subject to calculation, it is difficult to reliably determine the volume of calculation activities due to post-sale processing and the wide variety of final products and final consumers as most of our products are calculation activities due to post-sale processing and the wide variety of final products and final consumers, as most of our products are intermediate products. In addition, Category 15: Investments are excluded from the calculation because Kureha is neither an investment business nor a business that provides financial services.

 $^{2. \}quad Scope \ 3 \ emissions \ for \ FY2021 \ were \ re-calculated \ in \ accordance \ with \ the \ FY2022 \ revision \ of \ the \ calculation \ method \ for \ Scope \ 3.$

Fluorocarbons Emissions Control Act—Calcu	ılated amount	of leakage (K	ureha)			
	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Head office, other offices	t - CO_2	0	0	20	3	0
The Iwaki Factory	$t\text{-}\mathrm{CO}_2$	752	430	356	329	449
The plastics processing factory	t - CO_2	19	22	13	97	16
Total	t - CO_2	770	452	389	429	465

Atmospheric (Kureha)						
	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
SOx emission volume	t	18	4	4	8	4
NOx emission volume	t	395	432	430	455	413
Soot and dust emission volume	t	11	14	14	7	5

Atmospheric (Kureha Group)						
	Unit	FY2018 ¹	FY2019 ²	FY2020 ²	FY2021 ²	FY2022 ²
SOx emission volume	t	34	19	28	28	23
NOx emission volume	t	512	545	536	578	541
Soot and dust emission volume	t	16	17	17	10	8

 $^{1.\ \}mbox{Kureha}$ Corporation, 14 Group factories in Japan and overseas

^{2.} Kureha Corporation, 16 Group companies in Japan, 11 Group companies overseas

Water withdrawal and total discharge (Kure	ha)					
	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Water withdrawal	1,000 m ³	20,342	20,392	20,199	20,257	21,500
City water	1,000 m ³	81	81	79	44	42
Groundwater	1,000 m ³	868	848	841	834	779
Industrial water	1,000 m ³	19,393	19,462	19,279	19,379	20,679
Other	1,000 m ³	0	0	0	0	0
Total discharge	1,000 m ³	18,084	18,123	18,059	18,240	18,245

Water withdrawal and total discharge (Grou	p Companies i	n Japan)				
	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Water withdrawal	$1,000 \text{ m}^3$	1,747	1,812	1,730	1,701	1,691
City water	1,000 m ³	129	128	124	121	117
Groundwater	1,000 m ³	286	305	335	333	368
Industrial water	1,000 m ³	1,213	1,314	1,271	1,247	1,206
Other	1,000 m ³	118	65	0	0	0
Total discharge	1,000 m ³	1,523	1,692	1,513	1,547	1,514
- 15 Group companies in Japan						

Water withdrawal and total discharge (Over	seas Group Co	mpanies)				
	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Water withdrawal	$1,000 \text{ m}^3$	2,126	2,056	1,968	2,027	1,813
City water	$1,000 \text{ m}^3$	499	139	116	127	121
Groundwater	$1,000~\mathrm{m}^3$	0	0	0	0	0
Industrial water	$1,000 \text{ m}^3$	817	706	750	711	616
Other	$1,000 \text{ m}^3$	810	1,211	1,103	1,189	1,076
Total discharge	$1,000~\mathrm{m}^3$	1,927	2,018	1,913	2,053	1,673

reha Group)					
Unit	FY2018	FY2019	FY2020	FY2021	FY2022
1,000 m ³	24,215	24,260	23,897	23,985	25,005
1,000 m ³	709	349	318	292	280
1,000 m ³	1,154	1,153	1,176	1,167	1,147
1,000 m ³	21,424	21,481	21,300	21,337	22,501
1,000 m ³	928	1,276	1,103	1,189	1,076
1,000 m ³	21,534	21,832	21,485	21,839	21,397
	1,000 m ³	Unit FY2018 1,000 m³ 24,215 1,000 m³ 709 1,000 m³ 1,154 1,000 m³ 21,424 1,000 m³ 928	Unit FY2018 FY2019 1,000 m³ 24,215 24,260 1,000 m³ 709 349 1,000 m³ 1,154 1,153 1,000 m³ 21,424 21,481 1,000 m³ 928 1,276	Unit FY2018 FY2019 FY2020 1,000 m³ 24,215 24,260 23,897 1,000 m³ 709 349 318 1,000 m³ 1,154 1,153 1,176 1,000 m³ 21,424 21,481 21,300 1,000 m³ 928 1,276 1,103	Unit FY2018 FY2019 FY2020 FY2021 1,000 m³ 24,215 24,260 23,897 23,985 1,000 m³ 709 349 318 292 1,000 m³ 1,154 1,153 1,176 1,167 1,000 m³ 21,424 21,481 21,300 21,337 1,000 m³ 928 1,276 1,103 1,189

		roup companies overseas
 ,r	 ,	 P

Discharge-related (Kureha)						
	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
COD emission volume	t	69	84	73	95	91
BOD emission volume	t	20	21	32	36	46
Total nitrogen emission volume	t	32	38	31	44	55
Total phosphorus emission volume	t	8	8	9	9	11

FY20:	23 Reporte	d volumes of PRTR substances released	/transferred	FY2022 Res	ults) (Kureh	a)		
	JPSN (Japan			Release vol	lumes (kg)		Transfer ve	olumes (kg)
No.	(Japan PRTR-SDS Number)	Cabinet order name	Air	Public water bodies	Land (on site)	Landfill on site	Sewage	Off-site
1	4	Acrylic acid and its water-soluble salts	0.0	0.0	0.0	0.0	0.0	1,000
2	9	Acrylonitrile	4,200	1.2	0.0	0.0	0.0	840
3	15	Acenaphthene	160	0.0	0.0	0.0	0.0	360
4	16	2,2'-Azobisisobutyronitrile	0.0	0.0	0.0	0.0	0.0	1.0
5	71	Ferric chloride	0.0	0.0	0.0	0.0	0.0	0.4
6	94	Chloroethylene (synonym: Vinyl chloride)	1,600	0.3	0.0	0.0	0.0	140
7	103	1-Chloro-1,1-difluoroethane (synonym: HCFC-142b)	280	0.0	0.0	0.0	0.0	130,000
8	125	Chlorobenzene	2,800	2.8	0.0	0.0	0.0	4,400
9	158	1,1-Dichloroethylene (synonym: Vinylidene chloride)	7,100	1.5	0.0	0.0	0.0	27,000
10	159	cis-1,2-Dichloroethylene	0.0	0.0	0.0	0.0	0.0	780
11	181	Dichlorobenzene	5,500	96	0.0	0.0	0.0	270,000
12	243	Dioxins (mg – TEQ / y)	0.0	1.6	0.0	0.0	0.0	0.0
13	280	1,1,2-Trichloroethane	1.0	0.9	0.0	0.0	0.0	140
14	281	Trichloroethylene	410	0.0	0.0	0.0	0.0	5,500
15	290	Trichlorobenzene	0.0	0.0	0.0	0.0	0.0	33,000
16	300	Toluene	0.1	0.0	0.0	0.0	0.0	1,100
17	302	Naphthalene	4,900	240	0.0	0.0	0.0	6,900
18	340	Biphenyl	110	0.0	0.0	0.0	0.0	270
19	349	Phenol	0.0	0.0	0.0	0.0	0.0	0.0
20	374	Hydrogen fluoride and its water- soluble salts	1.9	0.0	0.0	0.0	0.0	0.3
21	392	Hexane	1,800	0.0	0.0	0.0	0.0	3,300
22	400	Benzene	450	0.1	0.0	0.0	0.0	270
23	420	Methyl methacrylate	6.0	0.0	0.0	0.0	0.0	35
24	438	Methylnaphthalene	790	0.0	0.0	0.0	0.0	1,600
		Total	30,109	344	0	0	0	486,637

⁻ The above figures are reported values for substances subject to the PRTR system (Class I Designated Chemical Substances) with an annual handling volume of 1 ton or more.

⁻ Most of the substances that are transferred outside of our business sites are incinerated at Kureha Ecology Management Co., Ltd. (waste disposal business)

⁻ No volume of substances are transferred from the Iwaki Factory to the sewage system because it is not connected to the sewage system.

Waste generation, recycling, and landfill disp	posal volume (Kureha)				
	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Waste generation volume	1,000 t	20.3	22.1	19.6	26.3	26.1
Recycling volume	1,000 t	11.7	13.0	11.5	15.1	18.3
Landfill disposal volume	1,000 t	3.9	4.1	3.2	6.3	2.4
Recycling rates*	%	57.6	58.6	58.7	57.2	70.0
* Recycling rate = Amount recycled (include	ing heat recove	ery) / Amount	of waste gener	ated x 100		

Waste generation, recycling, and landfill disp	osal volume (Group Compar	nies in Japan)¹			
	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Waste generation volume	1,000 t	41.1	41.9	48.1	44.3	39.6
Recycling volume	1,000 t	13.8	15.2	20.8	19.8	18.0
Landfill disposal volume	1,000 t	27.0	26.6	27.1	23.8	21.3
Recycling rates ²	%	33.7	36.3	43.2	44.8	45.6

 $^{1. \} The \ above \ includes \ industrial \ waste \ and \ construction \ waste \ disposal.$

^{2.} Recycling rate = Amount recycled (including heat recovery) / Amount of waste generated x 100

Waste generation, recycling, and landfill disp	osal volume (Overseas Grou	p Companies)			
	Unit	FY2018	FY2019	FY2020	FY2021	FY2022 ¹
Waste generation volume	1,000 t	2.8	2.8	2.1	2.1	2.1
Recycling volume	1,000 t	1.6	0.4	0.3	0.4	1.4
Landfill disposal volume	1,000 t	0.8	0.8	0.7	0.7	0.6
Recycling rates ²	%	57.6	14.9	15.1	18.7	66.2

^{1.} We have revised the calculation method for FY2022 to include heat recovery and recycling.

^{2.} Recycling rate = Amount recycled (including heat recovery) / Amount of waste generated x 100

	Unit	FY20
Waste generation volume	1,000 t	67.
Recycling volume	1,000 t	37.
Landfill disposal volume	1,000 t	24.
Recycling rates*	%	55.

Volume of plastic product industrial waste, etc. discharged based on the Plastic Resource Circulation Act* (Kureha)							
	Unit		FY2021	FY2022			
Head office, other offices	t		1	17			
The Iwaki Factory	t		520	743			
The plastics processing factory	t		1,505	1,458			
Total	t		2,027	2,218			
	law involving the pr	romotion of resource recycling related to pla	,- ,-	2,210			

Volume of recycling entrustment and amount of commission based on the Containers and Packaging Recycling Act (Kureha)								
	Unit FY2019 FY2020 FY2021 FY2022 FY202 application application application application application							
Paper containers and packaging	t	166.4	159.3	163.6	167.1	114.5		
Plastics containers and packaging	t	68.3	27.1	26.0	27.4	34.6		
Commission	10,000 yen	364	223	353	301	399		

Social

Employees an	d other worl	kers (Kureh	a Group)							
		FY2020				FY2021		FY2022		
		Kureha	Group Companies in Japan	Overseas Group Companies	Kureha	Group Companies in Japan	Overseas Group Companies	Kureha	Group Companies in Japan	Overseas Group Companies
Employees	Total	1,676	1,891	726	1,663	1,898	698	1,655	1,886	724
	Male	1,309	1,369	563	1,295	1,385	539	1,284	1,369	561
	Female	367	522	163	368	513	159	371	517	163
Temporary employees*	Total	23	230	7	17	224	20	14	215	19
employees	Male	12	98	5	12	90	17	9	112	18
	Female	11	132	2	5	134	3	5	103	1
Dispatched employees	Total	94	_	_	95	_	_	108	63	17
employees	Male	_	_	_	_	_	_	62	36	12
	Female	_	_	_	_	_	_	46	27	5
All workers	Total	1,793	_	_	1,775	_	_	1,777	2,164	760
	Male	_	_	_	_	_	_	1,355	1,517	591
	Female	_	_	_	_	_	_	422	647	169

^{*} This refers to part-time workers hired directly by the Company.

Number of employees by age grou	up (Kureha)			
		FY2020	FY2021*	FY2022
Under 30 years old	Total	238	236	241
	Male	197	193	196
	Female	41	43	45
30-40 years old	Total	390	387	375
	Male	323	323	310
	Female	67	64	65
40-50 years old	Total	472	448	433
	Male	349	339	337
	Female	123	109	96
50-60 years old	Total	418	430	449
	Male	313	315	322
	Female	105	115	127
Over 60 years old	Total	158	162	157
	Male	127	125	119
	Female	31	37	38

¹²

Number of new hires* (Kureha Group)									
	FY2019	FY2020	FY2021		FY2022				
		Kureha	Kureha	Kureha	Kureha	Group Companies in Japan	Overseas Group Companies		
By gender	Total	47 (28)	59 (38)	60 (35)	65 (40)	93 (5)	104 (57)		
Figures in parentheses indicate the number of career-track employees.	Male	38 (21)	51 (32)	45 (25)	47 (29)	53 (4)	78 (43)		
	Female	9 (7)	8 (6)	15 (10)	18 (11)	40 (1)	26 (14)		

 $[\]mbox{*}$ Number of new employees hired (new graduates and mid-career hires).

Regular employees	leaving the Company*	(Kureha Grou	(p)				
		FY2019	FY2020	FY2021		FY2022	
		Kureha	Kureha	Kureha	Kureha	Group Companies in Japan	Overseas Group Companies
Total	Total	49	70	52	64	88	126
	Male	39	49	43	53	_	_
	Female	10	21	9	11	_	_
Retirees	Total	_	_	_	26	27	4
	Male	_	_	_	23	_	_
	Female	_	_	_	3	_	_
Resignees	Total	_	_	_	38	61	122
	Male	_	_	_	30	_	_
	Female	_	_	_	8	_	_

^{*} The numbers for FY2019–2021 is the total number of retirees and resignees.

Management position (Kureha Group)									
			FY2021						
	Kureha	Kureha	Kureha	Group Companies in Japan	Overseas Group Companies				
	Total	277	251	265	348	129			
	Male	262	237	247	326	105			
*	Female	15	14	18	22	24			
Management positions	Percentage of women	5.4	5.6	6.8	6.3	18.6			
	Non-Japanese nationals (Excluding Japanese)	0.4	0.4	0.4	0.3	64.3			
	Percentage of mid-career hires	7.2	8.0	9.1	34.2	61.1			
* Management positions =	executive officers, directors, a	dvisors, vice pr	esidents						

Paid holidays taken (Kureha)								
	FY2019	FY2020	FY2021	FY2022				
Percentage of paid holidays taken*	81.8	72.5	75.7	86.3				

^{*} FY2019 and FY2020 are from March 11 of the first year to March 10 of the following year. FY2021 is from March 11, 2021 to March 31, 2022 (excluding September 11 to 30).

Overtime hours (Kureha)							
	Unit	FY2019	FY2020	FY2021	FY2022		
Average monthly overtime hours*	hr/mo	12.9	11.8	12.3	12.7		

^{*} FY2019 and FY2020 are from March 11 of the first year to March 10 of the following year. FY2021 is from March 11, 2021 to March 31, 2022 (excluding September 11 to 30).

Childcare leave syste	m (Kureha (Group)						
		FY2020 FY2021				FY2022		
		Unit	Kureha	Kureha	Kureha	Group Companies in Japan	Overseas Group Companies ³	
Number of employees eligible for childcare leave	Total		ı	_	58	36	18	
	Male		Ι	_	48	24	12	
	Female		_	_	10	12	6	
Employees taking childcare leave	Total		8	13	19	19	15	
	Male		2	2	8	7	11	
	Female		6	11	11	12	4	
Use of childcare leave acquisition	Total	%	16.3	24.5	32.7	52.7	83.3	
rate 1	Male		4.7	4.8	16.6	29.1	91.6	
	Female		100	100	110	100	66.6	
Return to work rate after childcare	Total	%	100	100	100	100	100	
leave ²	Male		_	100	100	100	100	
	Female		100	100	100	100	100	

- 1. Percentage of employees taking childcare leave (FY2022) = (Male) Number of employees who took childcare leave / Number of employees whose spouse gave birth x 100 (Female) Number of employees who took childcare leave / Number of employees who gave birth x 100
- 2. Rate of return from childcare leave (FY2022) = Number of employees who returned to work out of whose childcare leave was scheduled to end in the fiscal year / Number of employees whose childcare leave was scheduled to end in the fiscal year x 100
- 3. Overseas Group companies excludes those in the U.S. $\,$

Childcare leave system (Kureha)								
		Unit	FY2020	FY2021	FY2022			
Male employees taking paternity and childcare leave	Male		16	24	33			
Male employees' use of paternity and childcare leave	Male	%	37.2	57.1	68.7			
	Total		19	16	19			
Employees using shortened working hours for childcare	Male		0	0	1			
	Female		19	16	18			

Nursing leave (Kureha)							
			FY2020	FY2021	FY2022		
Employees using nursing leave	Total		5	5	3		
	Male		1	2	1		
	Female		4	3	2		

Spousal overseas transfer leave (Kureha)						
	FY2019	FY2020	FY2021	FY2022		
Employees taking leave for spouse's overseas transfer* 0 2 1 0						
* The total is for the fiscal year during which the acquisition began.						

Caregiving leave (Kureha)						
	FY2019	FY2020	FY2021	FY2022		
Employees who received caregiving leave*	0	0	0	1		
Employees who used caregiving leave	6	7	5	4		
Employees using shortened working hours for caregiving 0 0 0 0						
* The total is for the fiscal year during which the acquisition began.						

Employment of people with disabilities (Kureha)						
	Unit	FY2019	FY2020	FY2021	FY2022	
Employment rate	%	2.22	2.45	2.33	2.38	
Statutory employment rate	%	2.20	2.30	2.30	2.30	

- Includes Sunshine Kureha Co., Ltd., a special subsidiary.
- Calculated based on enrollment as of June 1 of each year.

The number of fatalities as a result of work-related ill health (Kureha)					
	FY2020	FY2021	FY2022		
All employees	0	0	0		
All workers who are not employees but whose work and/or workplace is controlled by the organization	0	0	0		

Occupational accident frequency rate (Kureha)							
	CY2018	CY2019	CY2020	CY2021	CY2022		
The Iwaki Factory	1.13	1.73	0.55	2.30	1.54		
Chemical industry average	0.90	0.94	0.93	1.07	1.16		
The plastics processing factory	0.00	0.00	1.72	0.00	1.91		
Plastics manufacturing industry average	1.00	1.25	1.20	1.35	1.21		

- Source: "Survey on Industrial Accidents," Ministry of Health, Labour and Welfare
- Occupational accident frequency rate: Number of lost time injuries and fatalities per 1,000,000 total working hours in the calendar year (January to December)
- Formula: (Number of lost time injuries and fatalities due to occupational accidents / Total working hours) x 1,000,000

Occupational accident severity rate (Kureha)							
	CY2018	CY 2019	CY 2020	CY 2021	CY 2022		
The Iwaki Factory	0.001	0.03	0.002	0.01	0.00		
Chemical industry average	0.06	0.03	0.03	0.02	0.06		
The plastics processing factory	0.00	0.00	0.01	0.00	0.00		
Plastics manufacturing industry average	0.12	0.12	0.11	0.09	0.06		

⁻ Occupational accident severity rate: Number of workdays lost per 1,000 total working hours in the calendar year (January to December).

⁻ Formula: (Number of workdays lost / Total working hours) x 1,000

Lost time accidents (Kureha Group)							
	Unit	FY2018	FY2019	FY2020	FY2021	FY2022	
Total	Accidents	14	13	5	14	12	
Kureha		2	3	2	4	4	
Group Companies in Japan		7	5	2	4	6	
Overseas Group Companies		5	5	1	6	2	

⁻ Information is reported by calendar year (January to December) based on the documents sent to the Ministry of Health, Labour and Welfare and the Japanese Chemical Industry Association.

Ratio of basic salary and compensation of women to men (Kureha)							
		Unit	FY2020	FY2021	FY2022		
Basic salary	Employees	Male: Female	55:45	55:45	54:46		
	Temporary employees	Male: Female	59:41	58:42	60:40		
Total remuneration	Employees	Male: Female	57:43	57:43	58:42		
	Temporary employees	Male: Female	58:42	57:43	60:40		

⁻ The aggregate amount for temporary employees was revised in FY2022.

⁻ Total compensation: Average total compensation for men or women / (Average total compensation for men + Average total compensation for women) x 100

Percentage of employees receiving regular performance and career development reviews* (Kureha)						
Unit FY2022						
Male	%	99.1				
Female	%	98.7				
* Calculates the percentage of employees on whom performance evaluations are conducted on a regular basis.						

Average annual hours of training per employee* (Kureha)				
	Unit	FY2022		
Employees	Hours	23.8		

^{*} Total of (hours of each education and training x Number of employees who took training) / Number of employees at the end of the fiscal year

⁻ Basic salary: Average basic salary for men or women / (Average basic salary for men + Average basic salary for women) x 100

• Governance

Composition of the Board of Directors and Officers (Kureha)						
	FY2022*					
	Inside Directors	Outside Directors	Total	Percentage of Outside Directors (%)		
Total	5	5	10	50		
Directors	4	3	7	43		
Audit & Supervisory Board Members * As of March 31, 2022	1	2	3	67		

Compensation of Directors (Kureha)							
		FY2022					
	Aggregate	regate Amount of remuneration by type (Millions of yen)					
Classification	amount of remuneration (Millions of yen)	Base salary	Performance- linked remuneration, etc.	Non-monetary rewards, etc.	Number of Directors		
Directors (Excluding Outside Directors)	287	154	109	23	4		
Audit & Supervisory Board Member (Excluding Outside Auditors)	18	18	_	_	1		
Outside Directors	38	38	_	_	3		
Outside Audit & Supervisory Board Members	30	30	_	_	2		

Category	Members	Number of meetings per year	Main subjects of agenda
Board of Directors	oPresident & Chief Executive Officer Yutaka Kobayashi Executive Vice President Michihiro Sato Senior Vice President Yoshio Noda Senior Vice President Hiroyuki Tanaka Outside Director Osamu Tosaka Outside Director Kazunari Higuchi Outside Director Osamu Iida	13	Formulation of Kureha Group New Mid- to Long-term Management Plan Establishment of Kureha Group Charter of Corporate Behavior Establishment of Kureha Group Human Rights Policy and Human Rights Code Establishment of Sustainability Coordination Committee Revision of Director's compensation system Direction of the PGA business Report on the results of evaluation of internal control over financial reporting
Nomination Advisory Committee	Outside Director Osamu Tosaka Outside Director Kazunari Higuchi Outside Director Osamu Iida President & Chief Executive Officer Yutaka Kobayashi	4	Matters pertaining to the appointment and dismissal of the Chairman of the Board, President, Representative Director, and Directors Matters pertaining to potential successors to the President and CEO and their development plans Matters pertaining to the appointment and dismissal of Vice Presidents Diversity of Outside Directors
Remuneration Advisory Committee	oOutside Director Osamu Tosaka Outside Director Kazunari Higuchi Outside Director Osamu Iida President & Chief Executive Officer Yutaka Kobayashi	6	Matters pertaining to policies for the structure and system of compensation for Directors and Vice Presidents for FY2023 and beyond Breakdown of compensation, etc. by individual director

Annual CEO-to-employee compensation ratios (Kureha)					
	Unit	FY2021	FY2022		
Ratio of the annual total compensation for the organization's highest-paid individual to the median annual total compensation for all employees (excluding the highest-paid individual) ¹	%	1958	1801		
Ratio of the percentage increase in annual total compensation for the organization's highest-paid individual to the median percentage increase in annual total compensation for all employees (excluding the highest-paid individual) ²	%	94	95		

- $1. \ Annual \ total \ compensation \ ratio: Annual \ total \ compensation \ for \ the \ organization's \ highest-paid \ individual \ / \ Median \ annual \ total \ compensation \ for \ all \ of \ the \ organization's \ employees \ excluding \ the \ highest-paid \ individual \ x \ 100$
- . Change in the annual total compensation: Percentage increase in annual total compensation for the organization's highest-paid individual / Median percentage increase in annual total compensation for all of the organization's employees excluding the highest-paid individual x 100

Whistleblowing system (Kureha and Group Companies in Japan)								
FY2019 FY2020 FY2021 FY2022								
The number of reports 2 10 6 12								

Violations of the law (Kureha)						
	FY2019	FY2020	FY2021	FY2022		
Antitrust Law	0	0	0	0		
Violations of laws concerning security export control	0	0	0	0		
Environmental laws and regulations	0	0	0	0		
Other violations of the law	_	_	_	0		

Marketing and labeling (Kureha)						
	FY2019	FY2020	FY2021	FY2022		
Premiums and Representations Act violations	0	0	0	0		

Political contributions (Kureha)							
	Unit	FY2019	FY2020	FY2021	FY2022		
Total amount	Million yen	0.15	0	0	0		

• Kureha Group Companies

Corporate data, Performance data

- The number of occupational accidents (in-house lost time), fatal accidents (in-house), total working hours, occupational accident frequency rate, occupational accident severity rate, equipment accidents, and logistics accidents are for the calendar year (January to December 2022).

Target companies

Group Companies in Japan

- · Resinous Kasei Co., Ltd. (Affiliated company of Kureha Trading Co., Ltd.)
- · Kureha Gohsen Co., Ltd.
- · Kureha Extron Co., Ltd.
- · Kureha Unyu Co., Ltd.
- · Kureha Ecology Management Co., Ltd.
- · Kureha Construction Co., Ltd.
- · Kureha Engineering Co., Ltd. (Affiliated company of Kureha Service Co., Ltd.)
- · Kureha Special Laboratory Co., Ltd. (Affiliated company of Kureha Service Co., Ltd.)

Overseas Group Companies

- KREHALON B.V. (Affiliated company of Kureha Europe B.V.)
- · Kureha PGA LLC (Affiliated company of Kureha America Inc.)
- Kureha (Changshu) Fluoropolymers Co., Ltd. (Affiliated company of Kureha (China) Investment Co., Ltd.)
- · Kureha (Shanghai) Carbon Fiber Materials Co., Ltd.
- · Kureha Vietnam Co., Ltd.

Resinous Kasei Co., La	Resinous Kasei Co., Ltd.					
Incorporated	October 18, 1972					
Shared capital	80 million yen					
Number of employees	60					
Head office	Nihonbashi Horidomecho First, 1-2-10 Nihonbashi Horidomecho, Chuo-ku, Tokyo					
Business outline	Manufacture and sale of epoxy resin adhesives, etc.					

Item	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Energy consumption (crude oil equivalent)	kL	593	586	597	597	555
Energy consumption intensity (sales revenue)	kL/million yen	0.27	0.30	0.24	0.24	0.30
Energy-related CO ₂ emissions	t	1,241	1,207	1,119	1,136	1,124
Waste generation volume	t	114	105	109	97	84
Recycling volume	t	53	49	52	50	27
Recycling rates	%	46	47	48	52	32
Landfill disposal volume	t	12	11	11	9	8
Number of substances reported under PRTR system	Substances	2	1	1	1	1
Releases to air	kg	5	1	2	2	1
Transfers to off-site*	kg	97	37	39	50	31
Number of occupational accidents (in-house lost time)	Accidents	1	0	0	0	0
Fatal accidents (in-house)	Accidents	0	0	0	0	0
Total working hours	1,000 hours	109	108	109	108	107
Occupational accident frequency rate	-	9.17	0.00	0.00	0.00	0.00
Occupational accident severity rate	_	0.02	0.00	0.00	0.00	0.00
Equipment accidents	Accidents	0	0	0	0	0

 $^{^{*}}$ Due to a revision of the aggregation, the figures for FY2017 and thereafter have been revised.

Kureha Gohsen Co., L	Kureha Gohsen Co., Ltd.				
Incorporated	April 1, 1963				
Shared capital	120 million yen				
Number of employees 127					
Head office	1-63 Motomachi, Mibu-machi, Shimotsuga-gun, Tochigi				
Business outline	Resin processing & sales (textile fibers, textile products, molded products)				

Item	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Energy consumption (crude oil equivalent)	kL	889	776	805	830	751
Energy consumption intensity (sales revenue)	kL/million yen	0.20	0.18	0.17	0.14	0.13
Energy-related CO ₂ emissions	t	1,651	1,419	1,434	1,483	1,378
Waste generation volume	t	181	217	198	257	197
Recycling volume	t	129	185	151	238	182
Recycling rates	%	71	85	76	93	92
Landfill disposal volume	t	52	33	37	19	21
Number of occupational accidents (in-house lost time)	Accidents	1	0	0	1	1
Fatal accidents (in-house)	Accidents	0	0	0	0	0
Total working hours	1,000 hours	207	198	204	209	224
Occupational accident frequency rate	-	4.84	0.00	0.00	0.00	0.00
Occupational accident severity rate	-	0.03	0.00	0.00	0.04	0.00
Equipment accidents	Accidents	0	0	0	1	0

Kureha Extron Co., Lt	Kureha Extron Co., Ltd.					
Incorporated	August 19, 1964 (Merged on April 1, 2019)					
Shared capital	85 million yen					
Number of employees	108					
Head office	Head office and factory: 5691, Shishikura, Kasumigaura, Ibaraki					
	Tokyo Sales Office: NET Building 5F, 1-23-1 Omori-Kita, Ota-ku, Tokyo					
Shared capital	Plastics processing and sales (molded products, anti-static barrier products, films, sheets)					

	(Before merger wi Extron Co.,		(After merger)			
Item	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Energy consumption (crude oil equivalent)	kL	523	877	656	724	747
Energy consumption intensity (sales revenue)	kL/million yen	0.26	0.29	0.23	0.21	0.18
Energy-related CO ₂ emissions	t	939	1,550	1,153	1,359	1,410
Waste generation volume	t	35	100	165	135	186
Recycling volume	t	29	37	83	29	44
Recycling rates	%	83	37	50	21	24
Landfill disposal volume	t	4	58	76	77	142
Number of occupational accidents (in-house lost time)	Accidents	0	0	0	0	0
Fatal accidents (in-house)	Accidents	0	0	0	0	0
Total working hours	1,000 hours	79	183	188	194	188
Occupational accident frequency rate	_	0.00	0.00	0.00	0.00	0.00
Occupational accident severity rate	_	0.00	0.00	0.00	0.00	0.00
Equipment accidents	Accidents	0	0	0	0	0
Logistics accidents	Accidents	-	0	0	0	0

	(Formerly Kureha Extech Co.		
Item	Unit	FY2018	
Energy consumption (crude oil equivalent)	kL	715	
Energy consumption intensity (sales revenue)	kL/million yen	0.29	
Energy-related CO ₂ emissions	t	1,333	
Waste generation volume	t	232	
Recycling volume	t	202	
Recycling rates	%	87	
Landfill disposal volume	t	30	
Number of occupational accidents (in-house lost time)	Accidents	0	
Fatal accidents (in-house)	Accidents	0	
Total working hours	1,000 hours	141	
Occupational accident frequency rate	-	0.00	
Occupational accident severity rate	-	0.00	
Equipment accidents	Accidents	0	
Logistics accidents	Accidents	0	

Kureha Unyu Co., Ltd.		
Incorporated	August 25, 1962	
Shared capital	300 million yen	
Number of employees	282 (consolidated)	
Head office	69, Ochiai, Nishiki-machi, Iwaki, Fukushima	
Business outline	Transportation, warehousing, auto maintenance, petroleum and commodities sales	

Item	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Energy consumption (crude oil equivalent)	kL	164	188	168	171	161
Energy consumption intensity (sales revenue)	kL/million yen	0.02	0.02	0.02	0.02	0.02
Energy-related CO ₂ emissions	t	283	333	258	149	258
Waste generation volume	t	76	113	79	60	62
Recycling volume	t	29	55	35	51	55
Recycling rates	%	38	21	44	85	89
Landfill disposal volume	t	47	113	44	9	7
Number of substances reported under PRTR system	Substances	6	6	6	5	6
Releases to air	kg	69	66	62	58	59
Transfers to off-site*	kg	0	0	0	0	0
Number of occupational accidents (in-house lost time)	Accidents	1	3	0	2	3
Fatal accidents (in-house)	Accidents	0	0	0	0	0
Total working hours	1,000 hours	671	644	624	595	577
Occupational accident frequency rate	-	1.49	4.66	0.00	3.36	0.00
Occupational accident severity rate	-	0.00	0.06	0.00	0.15	0.17
Equipment accidents	Accidents	0	0	0	0	0
Logistics accidents	Accidents	23	20	7	22	13
* The above includes data for affiliated companies of Kureha Unyu Co., Ltd.						

Kureha Ecology Management Co., Ltd.				
Incorporated	December 1, 1971			
Shared capital	240 million yen			
Number of employees	384 (consolidated)			
Head office	30, Shitanda, Nishiki-machi, Iwaki, Fukushima			
Business outline	Collection, transportation and disposal of waste, environmental engineering business, environmental restoration business			

Item	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Energy consumption (crude oil equivalent)	kL	2,944	3,422	3,203	3,119	3,769
Energy consumption intensity (sales revenue)	kL/million yen	0.29	0.35	0.27	0.29	0.35
Energy-related CO ₂ emissions	t	11,835	12,818	11,533	10,751	12,369
Waste generation volume	t	26,619	25,769	25,926	24,018	21,107
Recycling volume	t	2,207	1,930	1,208	2,030	1,200
Recycling rates	%	8	8	5	8	6
Landfill disposal volume	t	24,412	23,839	24,718	21,988	19,907
Number of substances reported under PRTR system	Substances	31	31	31	31	31
Releases to air (dioxins)	mg-TEQ	49	22	9	17	14
Releases to public water bodies	kg	8,199	6,168	4,247	3,343	3,713
Transfers to off-site (dioxins)	mg-TEQ	9,200	5,500	6,810	6,600	6,200
Number of occupational accidents (in-house lost time)	Accidents	1	1	2	1	1
Fatal accidents (in-house)	Accidents	1	0	0	0	0
Total working hours	1,000 hours	694	714	738	741	721
Occupational accident frequency rate	_	1.44	1.40	2.71	1.35	1.39
Occupational accident severity rate	_	8.88	0.11	0.08	0.02	0.06
Equipment accidents	Accidents	0	0	0	0	0

Kureha Construction Co., Ltd.			
Incorporated	March 10, 1956		
Shared capital	370 million yen		
Number of employees	244 (consolidated)		
Head office	16, Ayanomachi, Nishiki-machi, Iwaki, Fukushima		
Business outline	Construction services		

Item	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Energy consumption (crude oil equivalent)	kL	113	107	118	106	103
Energy consumption intensity (sales revenue)	kL/million yen	0.006	0.005	0.01	0.01	0.01
Energy-related CO ₂ emissions	t	196	180	193	160	165
Waste generation volume	t	13,499	14,976	21,127	18,493	17,271
Recycling volume	t	11,061	12,862	19,059	17,193	16,355
Recycling rates	%	82	86	90	93	95
Landfill disposal volume	t	2,438	2,114	2,068	1,300	916
Number of occupational accidents (in-house lost time)	Accidents	2	0	0	0	0
Fatal accidents (in-house)	Accidents	0	0	0	0	0
Total working hours	1,000 hours	556	533	561	573	567
Occupational accident frequency rate	-	3.60	0.00	0.00	0.00	0.00
Occupational accident severity rate	-	0.00	0.00	0.00	0.00	0.00
Equipment accidents	Accidents	0	1	0	0	0

⁻ From FY2019 onward, waste generated, recycling volume, recycling rate, and landfill disposal are totals for the Kureha Construction Group.

Kureha Engineering Co., Ltd.		
Incorporated	October 2, 1972	
Shared capital	240 million yen	
Number of employees	36	
Head office	135, Ochiai, Nishiki-machi, Iwaki, Fukushima	
Business outline	Plant engineering & maintenance services	

Item	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Energy consumption (crude oil equivalent)	kL	72	71	81	82	86
Energy consumption intensity (sales revenue)	kL/million yen	0.03	0.03	0.02	0.02	0.02
Energy-related CO ₂ emissions	t	126	125	143	124	138
Waste generation volume	t	314	258	286	785	307
Recycling volume	t	153	126	154	175	92
Recycling rates	%	49	49	54	22	30
Landfill disposal volume	t	38	29	24	16	2
Number of occupational accidents (in-house lost time)	Accidents	0	0	0	0	0
Fatal accidents (in-house)	Accidents	0	0	0	0	0
Total working hours	1,000 hours	87	87	86	81	84
Occupational accident frequency rate	-	0.00	0.00	0.00	0.00	0.00
Occupational accident severity rate	-	0.00	0.00	0.00	0.00	0.00
Equipment accidents	Accidents	0	0	0	1	0

Kureha Special Laboratory Co., Ltd.			
Incorporated	November 14, 1990		
Shared capital	50 million yen		
Number of employees	97		
Head office	16, Ochiai, Nishiki-machi, Iwaki, Fukushima		
Business outline	Environmental and physiochemical testing and analysis		

Item	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Energy consumption (crude oil equivalent)	kL	350	353	374	385	382
Energy consumption intensity (sales revenue)	kL/million yen	0.26	0.28	0.31	0.30	0.28
Energy-related CO ₂ emissions	t	1,493	1,504	1,490	1,488	1,470
Waste generation volume	t	18	21	21	19	31
Recycling volume	t	3	6	8	6	21
Recycling rates	%	14	29	36	32	67
Landfill disposal volume	t	-	4	3	4	4
Number of occupational accidents (in-house lost time)	Accidents	1	0	0	0	0
Fatal accidents (in-house)	Accidents	0	0	0	0	0
Total working hours	1,000 hours	187	181	176	172	170
Occupational accident frequency rate		0.00	0.00	0.00	0.00	0.00
Occupational accident severity rate	-	0.00	0.00	0.00	0.00	0.00
Equipment accidents	Accidents	0	0	0	0	0

KREHALON B.V.	
Incorporated	October 1, 1973
Shared capital	2,722 thousand euro
Number of employees	207 (including branch office employees)
Head office	Londenstraat 10, 7418 EE Deventer, The Netherlands
Business outline	Manufacturing food packaging products

Item	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Energy consumption (crude oil equivalent)	kL	3,727	3,729	3,217	3,165	3,139
Energy consumption intensity (sales revenue)	kL/million euro	85	85	94	85	76
Energy-related CO ₂ emissions	t	2,274	2,384	2,352	2,116	2,050
Waste generation volume	t	1,521	1,539	1,060	1,016	1,124
Recycling volume	t	1,475	308	212	203	1,124
Recycling rates	%	97	20	20	20	100
Landfill disposal volume	t	0	0	0	0	0
Number of occupational accidents (in-house lost time)	Accidents	2	5	1	4	1
Fatal accidents (in-house)	Accidents	0	0	0	0	0
Total working hours	1,000 hours	328	307	292	263	257
Occupational accident frequency rate	-	6.10	16.29	3.42	15.21	3.89
Occupational accident severity rate	_	0.28	1.04	0.07	0.46	0.01
Equipment accidents	Accidents	3	0	0	0	0

Kureha PGA LLC	
Incorporated	April 7, 2008
Shared capital	155,408 thousand US dollars
Number of employees	70 (consolidated)
Head office	901 West DuPont Avenue, Belle, West Virginia 25015 USA
Business outline	PGA resin manufacturing

Item	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Energy consumption (crude oil equivalent)	kL	2,714	2,736	2,647	2,294	1,481
Energy consumption intensity (sales revenue)	kL/thousand US dollars	0.078	0.078	0.080	0.075	0.05
Energy-related CO ₂ emissions	t	5,880	5,945	5,878	4,783	2,890
Waste generation volume	t	188	291	158	65	22
Recycling volume	t	2	2	1	1	16
Recycling rates	%	48	55	1	2	71
Landfill disposal volume	t	1	79	0	6	6
Number of occupational accidents (in-house lost time)	Accidents	0	0	0	0	0
Fatal accidents (in-house)	Accidents	0	0	0	0	0
Total working hours	1,000 hours	139	124	123	115	119
Occupational accident frequency rate	_	0.00	0.00	0.00	0.00	0.00
Occupational accident severity rate	-	0.00	0.00	0.00	0.00	0.00
Equipment accidents	Accidents	0	0	0	1	0

Kureha (Changshu) Fluoropolymers Co., Ltd.					
Incorporated	January 17, 2012				
Shared capital	108,000 thousand US dollars				
Number of employees	115				
Head office	No.2 Haiping Road, Advanced Materials Industrial Park, Changshu, Jiangsu Province, China				
Business outline	Production & Sales of PVDF				

Item	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Energy consumption (crude oil equivalent)	kL	2869	2573	2,696	3,611	3,819
Energy consumption intensity (sales revenue)	kL/million yuan	=	-	-	-	-
Energy-related CO ₂ emissions	t	13,447	10,432	10,787	11,791	8,746
Waste generation volume	t	94	116	65	94	100
Recycling volume	t	0	0.8	5	28	25
Recycling rates	%	0	1	8	30	25
Landfill disposal volume	t	0	0	0	0	0
Number of occupational accidents (in-house lost time)	Accidents	0	0	0	1	0
Fatal accidents (in-house)	Accidents	0	0	0	0	0
Total working hours	1,000 hours	204	205	212	204	252
Occupational accident frequency rate	-	0.00	0.00	0.00	4.90	0.00
Occupational accident severity rate	-	0.00	0.00	0.00	0.01	0.00
Equipment accidents	Accidents	0	0	0	0	0

Kureha (Shanghai) Carbon Fiber Materials Co., Ltd.					
Incorporated	April 30, 2003				
Shared capital	12,900 thousand US dollars				
Number of employees	56				
Head office	No.1585 Xing Rong Road, Jiading, Shanghai, China				
Business outline	Production & sales of thermal insulation made from carbon fibers				

Item	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Energy consumption (crude oil equivalent)	kL	2,449	2,295	2,084	2,325	2,482
Energy consumption intensity (sales revenue)	kL/million yuan	30	33	29	23	22
Energy-related CO ₂ emissions	t	5,442	4,766	3,938	4,242	5,535
Waste generation volume	t	154	95	92	93	154
Recycling volume	t	17	12	10	37	77
Recycling rates	%	11	12	11	40	50
Landfill disposal volume	t	20	43	50	49	56
Number of occupational accidents (in-house lost time)	Accidents	2	0	0	1	1
Fatal accidents (in-house)	Accidents	0	0	0	0	0
Total working hours	1,000 hours	115	114	100	104	127
Occupational accident frequency rate	-	17.41	0.00	0.00	9.64	7.86
Occupational accident severity rate	-	0.49	0.00	0.00	0.21	0.02
Equipment accidents	Accidents	0	0	0	1	0
Logistics accidents	Accidents	0	0	1	0	0

Kureha Vietnam Co., Ltd				
Incorporated	January 11, 2008			
Shared capital	21,900 thousand US dollars			
Number of employees	199			
Head office	Plot 227/3, Road 13, Amata l.p., Long Binh Ward, Bien Hoa city, Dong Nai Province Vietnam			
Business outline	Production & sales of food packaging films			

Item	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Energy consumption (crude oil equivalent)	kL	2,978	3,027	2,943	3,068	2,606
Energy consumption intensity (sales revenue)	kL/thousand US dollars	103	106	100	86	72
Energy-related CO ₂ emissions	t	6,053	6,133	6,399	6,672	7,146
Waste generation volume	t	817	743	688	783	663
Recycling volume	t	103	94	83	115	124
Recycling rates	%	13	13	12	15	19
Landfill disposal volume	t	714	649	605	668	540
Number of occupational accidents (in-house lost time)	Accidents	1	0	0	0	0
Fatal accidents (in-house)	Accidents	0	0	0	0	0
Total working hours	1,000 hours	509	487	491	443	477
Occupational accident frequency rate	_	1.96	0.00	0.00	0.00	0.00
Occupational accident severity rate	-	0.06	0.00	0.00	0.00	0.00
Equipment accidents	Accidents	0	0	0	0	0
Logistics accidents	Accidents	0	0	0	0	0

• Information on external certification

		Status	Status of international standard certification					
Company	name	Environmental Management System	Occupational Safety and Health Management System	Quality Management System				
	Kureha Corporation Iwaki Factory	ISO 14001	ISO 45001	ISO 9001				
	Kureha Corporation Plastics Processing Factory	ISO 14001	ISO 45001	ISO 9001				
	Kureha Gohsen Co., Ltd.	ISO 14001	ISO 45001	ISO 9001				
	Kureha Extron Co., Ltd.	ISO 14001	-	ISO 9001				
T., T.,,,,,	Kureha Unyu Co., Ltd.	-	-	ISO 9001				
In Japan	Kureha Construction Co., Ltd.	ISO 14001	COHSMS	ISO 9001				
	Kureha Engineering Co., Ltd.	-	-	-				
	Kureha Ecology Management Co., Ltd.	ISO 14001	ISO 45001	ISO 9001				
	Kureha Special Laboratory Co., Ltd.	ISO 14001	ISO 45001	ISO 9001				
	Resinous Kasei Co., Ltd.	ISO 14001	-	ISO 9001				
	Kureha PGA LLC	-	-	-				
	KREHALON B.V.	ISO 14001	-	ISO 9001				
Overseas	Kureha (Shanghai) Carbon Fiber Materials Co., Ltd.	ISO 14001	ISO 45001	ISO 9001				
	Kureha (Changshu) Fluoropolymers Co., Ltd.	ISO 14001	ISO 45001	ISO 9001 IATF 16949				
	Kureha Vietnam Co., Ltd.	-	-	ISO 9001				
- Please	Please contact us for more information about the scope of our ISO certification.							