1. Kuraray Group (total of 2. Kuraray Group in Japan and 3. Kuraray Group outside Japan *1)

						(Covera	ge: 99.7%
		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
GHG emissions (Scope1+Scop	pe2) *2	1,000 t-CO ₂ e	3,188	3,231	3,045	3,020	2,89
	Scope1 emissions	1,000 t-CO ₂ e	2,000	2,060	2,045	1,973	1,87
	Scope2 emissions	1,000 t-CO ₂ e	1,188	1,170	1,000	1,047	1,020
Energy consumption (crude o	il equivalent)	1,000 kl	1,077	1,089	1,002	1,075	1,06
Water intake	Total	1,000 m ³	136,631	149,239	133,385	138,876	144,720
	Tapwater	1,000 m ³	6,626	4,480	3,969	4,021	3,434
	Subterranean river water	1,000 m ³	41,012	42,430	40,841	37,296	31,60
	Groundwater	1,000 m ³	30,463	28,442	29,301	30,614	32,774
	Industrial water	1,000 m ³	11,748	15,200	15,958	16,246	17,94
	Seawater (including Rainwater)	1,000 m ³	46,782	58,686	43,316	50,698	58,964
Wastewater		1,000 m ³	119,169	130,566	117,781	125,910	135,014
SOx emissions		tons	1,431	1,676	1,082	1,243	1,013
NOx emissions		tons	2,218	2,253	2,093	2,150	1,939
Substances covered under JCIA's voluntary PRTR	Emissions	tons	1,637	1,416	1,254	1,359	1,261
management program	Transfer	tons	8,884	12,213	8,693	9,558	8,583
Waste materials	Generated	tons	164,953	173,495	164,162	164,431	147,490
	Utilized (recycled)	tons	116,889	121,478	121,852	124,946	104,19
	Unutilized (including landfill)	tons	47,783	52,017	42,310	39,485	43,29
	Landfill	tons	25,313	27,958	20,921	19,640	21,762

*1 Excluding head offices and business offices of overseas affiliated companies
*2 Scope1 (direct emissions): GHG emissions generated by fuel combustion at the plants and other facilities of one's own company

Scope2 (indirect emissions): GHG emissions generated by the use of purchased energy such as electricity, heat, and steam supplied

by other companies

2. Kuraray Group in Japan (total of 2-1. Kuraray Co., Ltd. and 2-2. Domestic Affiliated Companies)

			(Coverage: 100%	o (Water inta	ake: 99.9%,	Waste wate	r: 99.8%))
		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
GHG emissions (Scope1+Scop	pe2)	1,000 t-CO ₂ e	1,320	1,310	1,229	1,340	1,236
	Scope1 emissions	1,000 t-CO ₂ e	1,138	1,121	1,067	1,163	1,047
	Scope2 emissions	1,000 t-CO ₂ e	182	189	162	177	189
Energy consumption (crude o	il equivalent)	1,000 kl	455	452	422	452	430
Raw materials used		1,000 tons	675	643	581	622	537
Water intake	Total	1,000 m ³	80,065	80,156	80,159	78,755	75,533
	Tapwater	1,000 m ³	540	540	551	564	555
	Subterranean river water	1,000 m ³	41,012	42,430	40,841	37,296	31,609
	Groundwater	1,000 m ³	27,838	25,828	26,731	27,993	30,213
	Industrial water	1,000 m ³	2,414	3,056	3,885	4,670	5,016
	Seawater (including Rainwater)	1,000 m ³	8,261	8,302	8,150	8,233	8,140
Wastewater	Total	1,000 m ³	72,831	69,770	73,604	73,224	70,502
	Rivers	1,000 m ³	37,915	34,601	36,849	37,874	35,838
	Sea area	1,000 m ³	32,405	32,694	34,276	32,595	31,716
	Public sewage	1,000 m ³	2,511	2,474	2,480	2,754	2,949
SOx emissions		tons	350	550	280	396	338
NOx emissions		tons	1,779	1,771	1,624	1,663	1,497
Soot and dust emissions		tons	32	31	32	31	44
COD emissions		tons	555	513	516	482	474
VOC emissions		tons	871	836	691	856	770
Substances covered under	Emissions	tons	1,004	967	805	985	894
JCIA's voluntary PRTR							
management program	Transfer	tons	1,203	1,108	911	1,292	1,555
Substances covered under	Emissions	tons	393	394	306	365	366
PRTR law	Transfer	tons	658	653	444	623	616
Waste materials	Generated	tons	88,677	91,785	88,479	88,479	74,699
	Utilized (recycled)	tons	86,406	88,837	85,620	85,279	71,441
	Unutilized (including landfill)	tons	1,989	2,948	2,859	3,201	3,258
	Landfill	tons	330	365	616	655	628

2-1. Kuraray Co., Ltd.

Includes 6 plants (Okayama, Kurashiki (Tamashima area), Saijo, Niigata, Kashima, Tsurumi), Kurashiki Research Center,

	Tsukuba Research Center, Tokyo Head Office, Osaka Office, etc						
		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
GHG emissions (Scope1+Scop	pe2)	1,000 t-CO ₂ e	1,310	1,301	1,221	1,331	1,227
	(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	1,286	1,275	1,193	1,306	1,217
Energy consumption (crude o	il equivalent)	1,000 kl	450	448	418	447	425
Raw materials used		1,000 tons	660	628	566	606	522
Water intake		1,000 m ³	79,310	79,356	79,465	78,008	74,793
Wastewater		1,000 m ³	72,149	69,025	72,961	72,525	69,817
SOx emissions			350	550	280	395	338
NOx emissions			1,779	1,770	1,623	1,662	1,497
Soot and dust emissions	Soot and dust emissions		31	31	32	31	44
COD emissions		tons	554	512	516	482	468
Ozone-layer depleting substar	nce emissions	tons of CFC equivalent	0.0	0.4	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR	Emissions	tons	902	855	719	862	774
management program	Transfer	tons	1,201	1,042	859	1,238	1,499
Substances covered under	Emissions	tons	392	394	306	365	366
PRTR law	Transfer	tons	658	594	398	573	565
Waste materials	Generated	tons	87,003	90,262	86,951	86,922	72,934
	Utilized (recycled)	tons	85,083	87,623	84,554	84,278	70,254
	Unutilized (including landfill)	tons	1,638	2,639	2,397	2,643	2,680
	Landfill	tons	159	110	253	293	252

2-1-1. Okayama Plant (including Kuraray Engineering Co., Ltd., Kuraray Kuraflex Co., Ltd., Kuraray Okayama Spinning Co., Ltd.,

Main

products:

Kuralon, Kuralon K-II,

Clarino (man-made leather),

Kuraray Techno Co., Ltd.)

(1) Address: 1-2-1	, Kaigan-dori, Minami-ku	Okavama City	Okavama Prefecture
(1) Audiess, 1-2-1	, кајуан-ион, мпланн-ки	, Okayama City,	Okayama merecure

(2) Site area: 663,000 m²

(3) ISO 14001: Certification No. JQA-EM0796 (Certified on March 24, 2000)

				Kuraflex (dry-laid non-woven fabric), EVAL resin and film, Poval resin			
		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
GHG emissions (Scope1+Scop	pe2)	1,000 t-CO ₂ e	626	650	572	627	592
	(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	624	649	571	626	591
Energy consumption (crude oil equivalent)		1,000 kl	191	199	174	194	184
Raw materials used		1,000 tons	127	128	92	112	108
Water intake		1,000 m ³	21,424	21,796	20,788	21,692	20,312
Wastewater		1,000 m ³	19,246	19,482	19,701	19,491	18,335
SOx emissions		tons	106	259	92	199	160
NOx emissions	NOx emissions		1,144	1,157	956	1,050	959
Soot and dust emissions		tons	14	14	11	12	15
COD emissions		tons	193	179	173	140	138
Ozone-layer depleting substa	nce emissions	tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR	Emissions	tons	480	473	389	478	465
management program	Transfer	tons	356	327	289	280	290
Substances covered under	Emissions	tons	271	280	207	281	277
PRTR law	Transfer	tons	207	201	187	167	178
Waste materials	Generated	tons	25,425	25,748	23,900	23,708	18,998
	Utilized (recycled)	tons	24,606	24,719	23,135	22,876	18,217
	Unutilized (including landfill)	tons	818	1,029	765	832	781
	Landfill	tons	33	24	51	38	58

2-1-2. Kurashiki Plant (including Kuraray Tamashima Co., Ltd., Kuraray Techno Co., Ltd.)

(1) Address: 7471, Tamashima-otoshima, Kurashiki City, Okayama Prefecture

(2) Site area: 410,000 m²

(3) ISO 14001: Certification No. JQA-EM1213 (Certified on December 22, 2000)

Main Polyester fiber, products: Poval film

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
GHG emissions (Scope1+Scop	pe2)	1,000 t-CO ₂ e	106	106	117	157	99
	(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	85	84	93	135	91
Energy consumption (crude o	il equivalent)	1,000 kl	42	38	43	42	32
Raw materials used		1,000 tons	23	25	20	22	20
Water intake		1,000 m ³	7,072	7,769	8,315	6,076	2,831
Wastewater		1,000 m ³	6,555	7,674	8,299	5,993	2,670
SOx emissions		tons	51	58	24	30	13
NOx emissions		tons	87	93	90	92	43
Soot and dust emissions		tons	2.7	1.8	5.9	2.6	4.2
COD emissions		tons	44	51	46	36	22
Ozone-layer depleting substar	nce emissions	tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR	Emissions	tons	29	29	36	35	35
management program	Transfer	tons	40	36	59	56	44
Substances covered under	Emissions	tons	0.1	0.1	0.3	0.2	0.5
PRTR law	Transfer	tons	0.2	0.2	1.2	4.8	3.2
Waste materials	Generated	tons	13,178	14,479	14,734	13,318	8,271
	Utilized (recycled)	tons	13,145	14,461	14,589	13,130	8,169
	Unutilized (including landfill)	tons	33	18	146	188	101
	Landfill	tons	29	18	123	188	96

2-1-3. Saijo Plant (including Kuraray Saijo Co., Ltd., Kuraray Techno Co., Ltd.)

(1) Address: 892, Tsuitachi, Saijo City, Ehime Prefecture

(2) Site area: 541,000 m²

(3) ISO 14001: Certification No. JQA-EM1185 (Certified on December 15, 2000)

Main	Poval film, Melt-blown Non-woven fabric,
products:	VECTRAN polyarylate fiber,
	GENESTAR (heat resistant polyamide resin),
	Polvester filament, KURAGEL PVA gel

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
GHG emissions (Scope1+Scop	pe2)	1,000 t-CO ₂ e	193	183	187	186	178
	(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	192	182	187	186	177
Energy consumption (crude o	il equivalent)	1,000 kl	58	57	55	56	52
Raw materials used		1,000 tons	29	28	26	23	21
Water intake		1,000 m ³	14,503	14,344	15,805	13,960	13,795
Wastewater		1,000 m ³	12,535	12,558	14,020	12,525	12,812
SOx emissions		tons	154	142	134	138	143
NOx emissions		tons	407	404	450	377	362
Soot and dust emissions		tons	9	9	9	11	15
COD emissions		tons	23	21	15	16	11
Ozone-layer depleting substar	nce emissions	tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR	Emissions	tons	144	141	114	117	92
management program	Transfer	tons	4.3	4.8	66	231	447
Substances covered under	Emissions	tons	2.8	3.8	2.8	2.7	2.2
PRTR law	Transfer	tons	4.3	3.4	2.7	8.7	8.7
Waste materials	Generated	tons	13,802	14,486	13,411	14,047	11,842
	Utilized (recycled)	tons	13,572	14,281	13,207	13,818	11,812
	Unutilized (including landfill)	tons	220	205	203	229	29
	Landfill	tons	14	14	13	28	25

2-1-4. Niigata Plant (including Kuraray Noritake Dental Inc., Kuraray Techno Co., Ltd.)

(1) Address: 2-28, Kurashiki-cho, Tainai City, Niigata Prefecture

(2) Site area: 924,000 m²

(3) ISO 14001: Certification No. JQA-EM0801 (Certified on March 31, 2000)

Main Methacryalic resin for molding, products: Poval resin, Dental materials, KURARITY (acrylic thermoplastic elastomer)

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
GHG emissions (Scope1+Scop	e2)	1,000 t-CO ₂ e	139	136	132	135	139
	(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	138	134	131	134	138
Energy consumption (crude oil	equivalent)	1,000 kl	65	63	62	63	65
Raw materials used		1,000 tons	319	312	304	299	233
Water intake		1,000 m ³	33,160	32,281	31,572	33,181	34,752
Wastewater		1,000 m ³	30,651	26,160	27,875	31,158	32,459
SOx emissions		tons	10	18	3	0.4	0.3
NOx emissions		tons	61	58	54	59	60
Soot and dust emissions		tons	0.0	0.4	0.0	0.0	0.2
COD emissions		tons	191	160	181	179	178
Ozone-layer depleting substan	ce emissions	tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR	Emissions	tons	112	110	106	104	105
management program	Transfer	tons	386	357	220	294	310
Substances covered under	Emissions	tons	63	64	63	59	58
PRTR law	Transfer	tons	313	296	165	233	233
Waste materials	Generated	tons	16,531	17,785	16,801	17,445	16,336
	Utilized (recycled)	tons	15,796	16,723	15,912	16,180	15,099
	Unutilized (including landfill)	tons	463	1,062	889	1,265	1,238
	Landfill	tons	28	27	34	29	30

2-1-5. Kashima Plant (including Kuraray Techno Co., Ltd.)

(1) Address: 36, Touwada, Kamisu City, Ibaraki Prefecture

(2) Site area: 408,000 m²

(3) ISO 14001: Certification No. JQA-EM0364 (Certified on March 12, 1999)

Main	SEPTON (thermoplastic elastomer),
products:	HYBRAR (thermoplastic elastomer),
	GENESTAR (heat resistant polyamide resin),
	Industrial cleaner

high performance activated carbon

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
GHG emissions (Scope1+Scop	pe2)	1,000 t-CO ₂ e	201	196	176	188	189
	(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	201	196	175	188	189
Energy consumption (crude o	il equivalent)	1,000 kl	82	79	72	80	80
Raw materials used 1		1,000 tons	136	109	94	119	116
Water intake		1,000 m ³	2,703	2,726	2,531	2,625	2,654
Wastewater		1,000 m ³	2,773	2,760	2,673	2,957	3,133
SOx emissions		tons	7.7	7.0	6.0	7.0	7.0
NOx emissions		tons	53	52	48	54	47
Soot and dust emissions		tons	4.0	3.0	3.0	3.0	9.0
COD emissions		tons	101	99	99	110	118
Ozone-layer depleting substa	nce emissions	tons of CFC equivalent	0.0	0.4	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR	Emissions	tons	124	94	74	128	77
management program	Transfer	tons	414	317	224	376	408
Substances covered under	Emissions	tons	41	38	32	21	27
PRTR law	Transfer	tons	135	93	43	160	141
Waste materials	Generated	tons	11,580	11,846	11,451	11,464	11,744
	Utilized (recycled)	tons	11,532	11,537	11,080	11,349	11,227
	Unutilized (including landfill)	tons	48	309	371	115	517
	Landfill	tons	0.8	10.0	18	3	38

2-1-6. Tsurumi Plant (Former Kuraray Chemical Co., Ltd. has been acquired by Kuraray Co., Ltd. since FY2017) Main Activated carbon,

(1) Address: 4342, Tsurumi, Bizen City, Okayama Prefecture

(2) Site area: 89,000 m²

(3) ISO 14001: Certification No. JQA-EM5426 (Certified on July 7, 2006)

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
GHG emissions (Scope1+Scop	e2)	1,000 t-CO ₂ e	39	24	31	33	25
	(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	39	24	31	33	25
Energy consumption (crude oil	equivalent)	1,000 kl	9.6	8.9	9.6	9.8	9.9
Raw materials used		1,000 tons	26	25	29	30	23
Water intake		1,000 m ³	420	410	433	454	430
Wastewater		1,000 m ³	312	312	317	326	337
SOx emissions		tons	20	67	21	21	14
NOx emissions		tons	26	6	25	31	26
Soot and dust emissions		tons	1.5	3.3	2.8	1.8	1.4
COD emissions		tons	1.9	1.5	1.4	1.0	0.8
Ozone-layer depleting substan	ce emissions	tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR	Emissions	tons	14	8	1	0.6	0.5
management program	Transfer	tons	0.0	0.0	0.0	0.0	0.0
Substances covered under	Emissions	tons	13	7	0	0.3	0.3
PRTR law	Transfer	tons	0.0	0.0	0.0	0.0	0.0
Waste materials	Generated	tons	6,378	5,797	6,519	6,800	5,641
	Utilized (recycled)	tons	6,328	5,781	6,505	6,793	5,636
	Unutilized (including landfill)	tons	51	15	14	7	6
	Landfill	tons	51	15	14	7	6

products:

2-2. Domestic Affiliated Companies

Including Kuraray Plastics Co., Ltd., Kuraray Fastening Co., Ltd., Kuraray Trading Co., Ltd., etc.

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
GHG emissions (Scope1+Scop	e2)	1,000 t-CO ₂ e	11	9	8	9	9
	(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	11	9	8	9	9
5, 1 (1)		1,000 kl	4.9	4.5	4.2	4.7	4.6
Raw materials used		1,000 tons	15	15	15	16	15
Water intake 1,		1,000 m ³	755	801	694	746	740
Wastewater 1		1,000 m ³	682	745	644	698	685
SOx emissions t		tons	0.1	0.2	0.2	0.2	0.2
NOx emissions t		tons	0.5	0.6	0.5	0.5	0.4
Soot and dust emissions		tons	0.1	0.1	0.1	0.1	0.1
COD emissions t		tons	0.4	0.7	0.6	0.4	6.0
Ozone-layer depleting substar	ice emissions	tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR	Emissions	tons	102	112	86	123	120
management program	Transfer	tons	2.4	66	51	54	56
Substances covered under	Emissions	tons	0.9	0.2	0.1	0.2	0.1
PRTR law	Transfer	tons	0.5	59	46	49	50
Waste materials	Generated	tons	1,674	1,523	1,528	1,558	1,765
	Utilized (recycled)	tons	1,323	1,214	1,066	1,000	1,187
	Unutilized (including landfill)	tons	351	308	462	557	578
	Landfill	tons	171	255	363	362	377

2-2-1. Ibuki Plant, Kuraray Plastics Co., Ltd.

(1) Address: 4330, Osa, Tar		Main	Hoses, drivi	ng pipes,			
(2) Site area: 74,900 m ²			products:	laminates, o	compounds		
(3) ISO 14001: Certification	No. JQA-EM2934 (Certified on January	(17, 2003)					
		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
GHG emissions (Scope1+Scop	pe2)	1,000 t-CO ₂ e	3.4	3.0	2.5	2.6	2.5
(inside number: CO ₂ emissions) 1		1,000 t-CO ₂ e	3.4	3.0	2.5	2.6	2.5
		1,000 kl	1.7	1.5	1.3	1.6	1.5
Raw materials used		1,000 tons	8	8	7	8	7
Water intake		1,000 m ³	641	696	607	656	645
Wastewater		1,000 m ³	642	696	607	656	645
SOx emissions		tons	0.0	0.0	0.0	0.0	0.0
NOx emissions		tons	0.2	0.2	0.1	0.1	0.0
Soot and dust emissions		tons	0.0	0.0	0.0	0.0	0.0
COD emissions		tons	0.0	0.7	0.6	0.4	0.8
Ozone-layer depleting substar	nce emissions	tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR	Emissions	tons	98	109	85	120	119
management program	Transfer	tons	0.0	65	51	53	55
Substances covered under	Emissions	tons	0.0	0.0	0.0	0.0	0.0
PRTR law	Transfer	tons	0.5	59	46	49	50
Waste materials	Generated	tons	716	607	575	566	612
	Utilized (recycled)	tons	680	462	330	308	375
	Unutilized (including landfill)	tons	36	144	245	257	237
1	Landfill	tons	28	143	238	251	230

2-2-2. Kuraray Fastening Co., Ltd.

(1) Address: 56, Noune	e, Maruoka-cho, Sakai-gun, Fukui prefecture	

(2) Site area: 22,950 m ² (3) ISO 14001: Certification No. JQA-EM3326 (Certified on August 22 U		22, 2003)	products:	MAGILOCK	astic hook an	id loop faste	ner)
			FY2018	FY2019	FY2020	FY2021	FY2022
GHG emissions (Scope1+Scop	e2)	1,000 t-CO ₂ e	3.5	2.9	2.8	3.2	2.8
	(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	3.5	2.9	2.8	3.1	2.8
Energy consumption (crude oi	l equivalent)	1,000 kl	1.6	1.4	1.3	1.6	1.4
Water intake		1,000 m ³	41	43	30	35	34
		1,000 m ³	37	41	30	35	32
SOx emissions		tons	0.0	0.0	0.0	0.0	0.0
NOx emissions		tons	0.0	0.0	0.0	0.0	0.0
Soot and dust emissions		tons	0.0	0.0	0.0	0.0	0.0
COD emissions		tons	0.0	0.0	0.0	0.0	0.0
Ozone-layer depleting substan	nce emissions	tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR	Emissions	tons	4.7	2.1	1.1	1.9	1.6
management program	Transfer	tons	2.4	1.1	0.5	1.0	0.8
Substances covered under	Emissions	tons	0.9	0.2	0.1	0.1	0.1
PRTR law	Transfer	tons	0.5	0.1	0.0	0.1	0.0
Waste materials	Generated	tons	271	229	206	216	193
	Utilized (recycled)	tons	247	208	193	201	178
	Unutilized (including landfill)	tons	24	21	14	15	15
	Landfill	tons	6.1	6.8	0.3	1.1	1.2

Main

MAGICTAPE (hook and loop fastener),

2-2-3. Okayama Plant, Kuraray Trading Co., Ltd.

(1) Address: 1099, Aza-Shinden, Oaza-Kawabe, Mabi-cho, Kibi-gun		n,	Main	Industrial resin belts				
		Okayama Prefecture	products:					
(2) Site area: 5,780 m ²								
		Unit	FY2018	FY2019	FY2020	FY2021	FY2022	
GHG emissions (Scope1+Scop	pe2)	1,000 t-CO ₂ e	0.3	0.5	0.4	0.5	0.6	
	(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	0.3	0.5	0.4	0.5	0.6	
- 57		1,000 kl	0.1	0.2	0.2	0.2	0.2	
Raw materials used		1,000 tons	0.1	0.1	0.1	0.2	0.4	
Water intake		1,000 m ³	3.0	4.0	4.0	4.2	4.6	
Wastewater		1,000 m ³	3.0	4.0	4.0	4.2	4.6	
SOx emissions		tons	0.1	0.2	0.2	0.2	0.2	
NOx emissions		tons	0.3	0.4	0.4	0.4	0.4	
Soot and dust emissions		tons	0.1	0.1	0.1	0.1	0.1	
COD emissions		tons	0.0	0.0	0.0	0.0	5.2	
Ozone-layer depleting substar	nce emissions	tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0	
Substances covered under JCIA's voluntary PRTR	Emissions	tons	0.1	0.3	0.2	0.2	0.0	
management program	Transfer	tons	0.0	0.0	0.0	0.0	0.0	
Substances covered under	Emissions	tons	0.0	0.0	0.0	0.0	0.0	
PRTR law	Transfer	tons	0.0	0.0	0.0	0.0	0.0	
Waste materials	Generated	tons	25	58	44	49	63	
	Utilized (recycled)	tons	24	55	40	47	60	
	Unutilized (including landfill)	tons	0.8	3.1	3.3	2.0	2.8	
	Landfill	tons	0.0	0.0	0.0	0.0	0.0	

3. Kuraray Group outside Japan (Locations stated below)

(Coverage: 99.5%, excluding head offices and business offices of overseas affiliated companies)	(Coverage:	99.5%,	excluding	head	offices and	d business	offices	of over	rseas affiliated	companies)
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		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
GHG emissions (Scope1+S	cope2)	1,000 t-CO ₂ e	1,868	1,921	1,816	1,680	1,660
	Scope1 emissions	1,000 t-CO ₂ e	862	939	978	810	830
	Scope2 emissions	1,000 t-CO ₂ e	1,006	981	838	870	830
Energy consumption (crud	e oil equivalent)	1,000 kl	622	637	580	623	635
Water intake		1,000 m ³	56,565	69,082	53,226	60,121	69,187
	Tapwater	1,000 m ³	6,086	3,940	3,418	3,457	2,879
	Subterranean river water	1,000 m ³	0	0	0	0	0
	Groundwater	1,000 m ³	2,624	2,614	2,570	2,622	2,560
	Industrial water	1,000 m ³	9,334	12,144	12,073	11,576	12,924
	Seawater (including Rainwater)	1,000 m ³	38,521	50,384	35,166	42,466	50,824
Wastewater		1,000 m ³	46,338	60,796	44,177	52,687	64,512
SOx emissions		tons	1,081.1	1,126	801	848	676
NOx emissions		tons	439	482	469	487	441
Chamies Laubetan and	Emissions	tons	633	449	449	374	367
Chemical substances	Transfer	tons	7,680	11,105	7,782	8,266	7,028
Waste materials	Generated	tons	76,277	81,710	75,683	75,951	72,792
	Utilized (recycled)	tons	30,483	32,641	36,232	39,667	32,754
	Unutilized (including landfill)	tons	45,793	49,069	39,451	36,284	40,038
	Landfill	tons	24,983	27,593	20,305	18,985	21,133

<Overseas locations covered> EVAL Europe N.V. Kuraray Europe GmbH, PVA/PVB Division Kuraray Europe GmbH, Trosifol Division Kuraray Europe GmbH, OOO Trosifol Kuraray Europe GmbH. Holesov works Kuraray America Inc. EVAL BU Kuraray America Inc. SEPTON BU Kuraray America Inc. PVOH BU Kuraray America Inc. Fayetteville works Kuraray America Inc. La Porte works Kuraray America Inc. Washington works Kuraray America Inc. Plantic Kuraray America Inc. Vectran Kuraray Korea Ulsan works Kuraray Asia Pacific Pte.Ltd. MonoSol, LLC. La Porte Plant MonoSol, LLC. Portage Plant MonoSol, LLC. Duneland Plant MonoSol, LLC. Indy Plant MonoSol, LLC. Hartlebury Plant Plantic Technologies Ltd. (Australia)

Kuraray Magictape (Shanghai) Co., Ltd. Kuraray Methacrylate (Zhang Jia Gang) Co., Ltd. Kuraray GC Advanced Materials Co., Ltd. Kuraray Advanced Chemicals (Thailand) Co., Ltd. Calgon Carbon Corp., Big Sandy Plant Calgon Carbon Corp., Pearl River Plant Calgon Carbon Corp., Gila Bend Plant Calgon Carbon Corp., Neville Island Plant Calgon Carbon Corp., Columbus Plant Calgon Carbon Corp., North Tonawanda Plant Calgon Carbon Corp., E&A Facilities Calgon Carbon Corp., Suzhou Plant Chemviron, Parentis Plant Chemviron, Feluy Plant Chemviron, Saint Bauzile Plant Chemviron, Riom Montagnes Plant Chemviron, Legnago Plant Chemviron, Tipton Plant Chemviron, Foggia Plant Chemviron, Ashton Plant Chemviron, Durham Plant

4. Other Environmental Data

<GHG emissions per type of gas>

• The chart below shows the breakdown of the Kuraray Group's Scope1 (direct emissions: GHG emissions generated by fuel combustion at the plants and other facilities of one's own company) emissions per type of gas.

• Fourth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) (AR4-100 year) is applied to the Global Warming Potential (GWP).

(Coverage: 99.7%)

						ge. 55.770)
	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Carbon dioxide (CO ₂)	1,000 t-CO ₂ e	1,976	2,035	2,018	1,947	1,866
Methane (CH ₄)	1,000 t-CO ₂ e	1.3	1.5	1.5	0.6	0.4
Nitrous oxide (N ₂ O)	1,000 t-CO ₂ e	22	23	25	24	9
Hydrofluorocarbons (HFCs)	1,000 t-CO ₂ e	0.8	1.2	0.8	1.2	1.3
Perfluorocarbons (PFCs)	1,000 t-CO ₂ e	0.0	0.0	0.0	0.0	0.0
Sulfur hexafluoride (SF ₆)	1,000 t-CO ₂ e	0.0	0.0	0.4	0.0	0.0
Nitrogen trifluoride (NF ₃)	1,000 t-CO ₂ e	0.0	0.0	0.0	0.0	0.0

<Sales intensity>

• The chart below shows the annual trend of the sales intensity of environmental load, and figures are based on FY2019 as 100, targeting 5% or more reduction by FY2026.

					(Covera	ge: 99.7%)
	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Sales intensity of energy consumption (Kuraray Group (overall))	-	-	100	-	-	82.8
Sales intensity of waste generation (Kuraray Group (overall))	-	-	100	-	-	72.0
Sales intensity of water resources (excluding seawater) (Kuraray Group (overseas))	-	-	100	-	-	74.4

<Number of cases of violation of environmental laws and regulations>

• The chart below shows the annual trend of the number of cases of the Kuraray Group's violation of environment-related laws and regulations.

• There have been no leakages, etc. that materially affect the external environment.

· Excluding minor and temporary cases exceeding standard limits and other environmental issues.

					(Covera	ge: 99.7%)
	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Kuraray Group in Japan	-	0	0	0	0	0
Kuraray Group outside Japan	-	0	0	0	0	0

Scope of regulations

Kuraray Group in Japan: including the Water Pollution Prevention Act, Act on Special Measures concerning Conservation of the Environment of the Seto Inland Sea as well as related ministerial orders, prefectural ordinances, municipal ordinances and pollution prevention agreements, etc.

Kuraray Group outside Japan: including government laws and regulations, local regulations, etc.

• The volume and quality of wastewater are managed pursuant to laws and regulations, etc. of the country where the plant, etc. is located both in and outside Japan.