

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

(Coverage: 99.7%)

	Unit	FY2019	FY2020	FY2021	FY2022	FY2023	
GHG emissions (Scope1+Scope2) ^{*2}	1,000 t-CO ₂ e	3,231	3,045	3,020	2,896	2,700	
Scope1 emissions	1,000 t-CO ₂ e	2,060	2,045	1,973	1,877	1,748	
Scope2 emissions	1,000 t-CO ₂ e	1,170	1,000	1,047	1,020	952	
Energy consumption (crude oil equivalent)	1,000 kl	1,089	1,002	1,075	1,065	1,059	
Water intake	1,000 m ³	149,239	133,385	138,876	144,720	123,063	
Total	1,000 m ³	149,239	133,385	138,876	144,720	123,063	
Tapwater	1,000 m ³	4,480	3,969	4,021	3,434	3,288	
Subterranean river water	1,000 m ³	42,430	40,841	37,296	36,146	34,626	
Groundwater	1,000 m ³	28,442	29,301	30,614	32,774	28,661	
Industrial water	1,000 m ³	15,200	15,958	16,246	13,404	15,036	
Seawater (including Rainwater)	1,000 m ³	58,686	43,316	50,698	58,964	41,453	
Wastewater	1,000 m ³	130,566	117,781	125,910	135,014	112,084	
SOx emissions	tons	1,676	1,082	1,243	1,013	1,415	
NOx emissions	tons	2,253	2,093	2,150	1,939	1,602	
Substances covered under JCIA's voluntary PRTR management program	Emissions	tons	1,416	1,254	1,359	1,261	1,101
	Transfer	tons	12,213	8,693	9,558	8,583	8,526
Waste materials	Generated	tons	173,495	164,162	164,431	147,490	154,576
	Utilized (recycled)	tons	121,478	121,852	124,946	104,195	87,456
	Unutilized (including landfill)	tons	52,017	42,310	39,485	43,295	67,120
	Landfill	tons	27,958	20,921	19,640	21,762	49,716

*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% (Water intake: 99.9%, Waste water: 99.8%))

		Unit	FY2019	FY2020	FY2021	FY2022	FY2023
GHG emissions (Scope1+Scope2)		1,000 t-CO ₂ e	1,310	1,229	1,340	1,236	1,144
	Scope1 emissions	1,000 t-CO ₂ e	1,121	1,067	1,163	1,047	970
	Scope2 emissions	1,000 t-CO ₂ e	189	162	177	189	174
Energy consumption (crude oil equivalent)		1,000 kl	452	422	452	430	394
Raw materials used		1,000 tons	643	581	622	537	462
Water intake		1,000 m ³	80,156	80,159	78,755	75,533	70,493
	Tapwater	1,000 m ³	540	551	564	555	523
	Subterranean river water	1,000 m ³	42,430	40,841	37,296	31,609	30,072
	Groundwater	1,000 m ³	25,828	26,731	27,993	30,213	26,233
	Industrial water	1,000 m ³	3,056	3,885	4,670	5,016	5,229
	Seawater (including Rainwater)	1,000 m ³	8,302	8,150	8,233	8,140	8,436
Wastewater		1,000 m ³	69,770	73,604	73,224	70,502	62,634
	Rivers	1,000 m ³	34,601	36,849	37,874	35,838	29,286
	Sea area	1,000 m ³	32,694	34,276	32,595	31,716	30,505
	Public sewage	1,000 m ³	2,474	2,480	2,754	2,949	2,843
SOx emissions		tons	550	280	396	338	440
NOx emissions		tons	1,771	1,624	1,663	1,497	999
Soot and dust emissions		tons	31	32	31	44	34
COD emissions		tons	513	516	482	474	419
VOC emissions		tons	836	691	856	770	736
Substances covered under JCIA's voluntary PRTR management program	Emissions	tons	967	805	985	894	770
	Transfer	tons	1,108	911	1,292	1,555	1,029
Substances covered under PRTR law	Emissions	tons	394	306	365	366	333
	Transfer	tons	653	444	623	616	662
Waste materials	Generated	tons	91,785	88,479	88,479	74,699	62,813
	Utilized (recycled)	tons	88,837	85,620	85,279	71,441	59,793
	Unutilized (including landfill)	tons	2,948	2,859	3,201	3,258	3,020
	Landfill	tons	365	616	655	628	426

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	FY2019	FY2020	FY2021	FY2022	FY2023
GHG emissions (Scope1+Scope2)		1,000 t-CO ₂ e	1,301	1,221	1,331	1,227	1,136
	(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	1,275	1,193	1,306	1,217	1,133
Energy consumption (crude oil equivalent)		1,000 kl	448	418	447	425	390
Raw materials used		1,000 tons	628	566	606	522	446
Water intake		1,000 m ³	79,356	79,465	78,008	74,793	69,817
Wastewater		1,000 m ³	69,025	72,961	72,525	69,817	62,014
SOx emissions		tons	550	280	395	338	440
NOx emissions		tons	1,770	1,623	1,662	1,497	998
Soot and dust emissions		tons	31	32	31	44	34
COD emissions		tons	512	516	482	468	414
Ozone-layer depleting substance emissions		tons of CFC equivalent	0.4	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR management program	Emissions	tons	855	719	862	774	671
	Transfer	tons	1,042	859	1,238	1,499	993
Substances covered under PRTR law	Emissions	tons	394	306	365	366	333
	Transfer	tons	594	398	573	565	631
Waste materials	Generated	tons	90,262	86,951	86,922	72,934	61,560
	Utilized (recycled)	tons	87,623	84,554	84,278	70,254	58,971
	Unutilized (including landfill)	tons	2,639	2,397	2,643	2,680	2,589
	Landfill	tons	110	253	293	252	145

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

- (1) Address: 1-2-1, Kaigan-dori, Minami-ku, Okayama City, Okayama Prefecture
 (2) Site area: 663,000 m²
 (3) ISO 14001: Certification No. JQA-EM0796 (Certified on March 24, 2000)

Main products:	Kuralon, Kuralon K-II, Clarino (man-made leather), Kuraflex (dry-laid non-woven fabric), EVAL resin and film, Poval resin
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	Unit	FY2019	FY2020	FY2021	FY2022	FY2023	
GHG emissions (Scope1+Scope2)	1,000 t-CO ₂ e	650	572	627	592	598	
(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	649	571	626	591	597	
Energy consumption (crude oil equivalent)	1,000 kl	199	174	194	184	172	
Raw materials used	1,000 tons	128	92	112	108	97	
Water intake	1,000 m ³	21,796	20,788	21,692	20,312	21,297	
Wastewater	1,000 m ³	19,482	19,701	19,491	18,335	19,079	
SOx emissions	tons	259	92	199	160	282	
NOx emissions	tons	1,157	956	1,050	959	628	
Soot and dust emissions	tons	14	11	12	15	17	
COD emissions	tons	179	173	140	138	139	
Ozone-layer depleting substance emissions	tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0	
Substances covered under JCIA's voluntary PRTR management program	Emissions	tons	473	389	478	465	414
	Transfer	tons	327	289	280	290	253
Substances covered under PRTR law	Emissions	tons	280	207	281	277	233
	Transfer	tons	201	187	167	178	180
Waste materials	Generated	tons	25,748	23,900	23,708	18,998	13,886
	Utilized (recycled)	tons	24,719	23,135	22,876	18,217	13,073
	Unutilized (including landfill)	tons	1,029	765	832	781	813
	Landfill	tons	24	51	38	58	55

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 products:	Polyester fiber, Poval film
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	Unit	FY2019	FY2020	FY2021	FY2022	FY2023	
GHG emissions (Scope1+Scope2)	1,000 t-CO ₂ e	106	117	157	99	67	
(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	84	93	135	91	67	
Energy consumption (crude oil equivalent)	1,000 kl	38	43	42	32	27	
Raw materials used	1,000 tons	25	20	22	20	16	
Water intake	1,000 m ³	7,769	8,315	6,076	2,831	3,028	
Wastewater	1,000 m ³	7,674	8,299	5,993	2,670	2,947	
SOx emissions	tons	58	24	30	13	14	
NOx emissions	tons	93	90	92	43	15	
Soot and dust emissions	tons	1.8	5.9	2.6	4.2	1.2	
COD emissions	tons	51	46	36	22	24	
Ozone-layer depleting substance emissions	tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0	
Substances covered under JCIA's voluntary PRTR management program	Emissions	tons	29	36	35	35	32
	Transfer	tons	36	59	56	44	33
Substances covered under PRTR law	Emissions	tons	0.1	0.3	0.2	0.5	0.0
	Transfer	tons	0.2	1.2	4.8	3.2	6.5
Waste materials	Generated	tons	14,479	14,734	13,318	8,271	5,097
	Utilized (recycled)	tons	14,461	14,589	13,130	8,169	5,081
	Unutilized (including landfill)	tons	18	146	188	101	16
	Landfill	tons	18	123	188	96	14

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 products:	Poval film, Melt-blown Non-woven fabric, VECTRAN polyarylate fiber, GENESTAR (heat resistant polyamide resin), Polyester filament, KURAGEL PVA gel
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		Unit	FY2019	FY2020	FY2021	FY2022	FY2023
GHG emissions (Scope1+Scope2)		1,000 t-CO ₂ e	183	187	186	178	145
(inside number: CO ₂ emissions)		1,000 t-CO ₂ e	182	187	186	177	144
Energy consumption (crude oil equivalent)		1,000 kl	57	55	56	52	47
Raw materials used		1,000 tons	28	26	23	21	16
Water intake		1,000 m ³	14,344	15,805	13,960	13,795	12,279
Wastewater		1,000 m ³	12,558	14,020	12,525	12,812	10,913
SOx emissions		tons	142	134	138	143	128
NOx emissions		tons	404	450	377	362	229
Soot and dust emissions		tons	9	9	11	15	10
COD emissions		tons	21	15	16	11	4
Ozone-layer depleting substance emissions		tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR management program	Emissions	tons	141	114	117	92	78
	Transfer	tons	4.8	66.3	231	447	135
Substances covered under PRTR law	Emissions	tons	3.8	2.8	2.7	2.2	2.3
	Transfer	tons	3.4	2.7	8.7	8.7	8.0
Waste materials	Generated	tons	14,486	13,411	14,047	11,842	10,658
	Utilized (recycled)	tons	14,281	13,207	13,818	11,812	10,232
	Unutilized (including landfill)	tons	205	203	229	29	426
	Landfill	tons	14	13	28	25	14

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 products:	Methacrylic resin for molding, Poval resin, Dental materials, KURARITY (acrylic thermoplastic elastomer)
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		Unit	FY2019	FY2020	FY2021	FY2022	FY2023
GHG emissions (Scope1+Scope2)		1,000 t-CO ₂ e	136	132	135	139	125
(inside number: CO ₂ emissions)		1,000 t-CO ₂ e	134	131	134	138	124
Energy consumption (crude oil equivalent)		1,000 kl	63	62	63	65	59
Raw materials used		1,000 tons	312	304	299	233	193
Water intake		1,000 m ³	32,281	31,572	33,181	34,752	30,147
Wastewater		1,000 m ³	26,160	27,875	31,158	32,459	25,689
SOx emissions		tons	18	3	0.4	0.3	0.2
NOx emissions		tons	58	54	59	60	57
Soot and dust emissions		tons	0.4	0.0	0.0	0.2	0.1
COD emissions		tons	160	181	179	178	132
Ozone-layer depleting substance emissions		tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR management program	Emissions	tons	110	106	104	105	90
	Transfer	tons	357	220	294	310	262
Substances covered under PRTR law	Emissions	tons	64	63	59	58	49
	Transfer	tons	296	165	233	233	200
Waste materials	Generated	tons	17,785	16,801	17,445	16,336	15,734
	Utilized (recycled)	tons	16,723	15,912	16,180	15,099	14,798
	Unutilized (including landfill)	tons	1,062	889	1,265	1,238	936
	Landfill	tons	27	34	29	30	33

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 products:	SEPTON (thermoplastic elastomer), HYBRAR (thermoplastic elastomer), GENESTAR (heat resistant polyamide resin), Industrial cleaner
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	Unit	FY2019	FY2020	FY2021	FY2022	FY2023	
GHG emissions (Scope1+Scope2)	1,000 t-CO ₂ e	196	176	188	189	171	
(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	196	175	188	189	171	
Energy consumption (crude oil equivalent)	1,000 kl	79	72	80	80	71	
Raw materials used	1,000 tons	109	94	119	116	107	
Water intake	1,000 m ³	2,726	2,531	2,625	2,654	2,667	
Wastewater	1,000 m ³	2,760	2,673	2,957	3,133	3,001	
SOx emissions	tons	7.0	6.0	7.0	7.0	5.0	
NOx emissions	tons	52	48	54	47	55	
Soot and dust emissions	tons	3.0	3.0	3.0	9.0	4.0	
COD emissions	tons	99	99	110	118	114	
Ozone-layer depleting substance emissions	tons of CFC equivalent	0.4	0.0	0.0	0.0	0.0	
Substances covered under JCIA's voluntary PRTR management program	Emissions	tons	94	74	128	77	56
	Transfer	tons	317	224	376	408	307
Substances covered under PRTR law	Emissions	tons	38	32	21	27	49
	Transfer	tons	93	43	160	141	236
Waste materials	Generated	tons	11,846	11,451	11,464	11,744	11,570
	Utilized (recycled)	tons	11,537	11,080	11,349	11,227	11,192
	Unutilized (including landfill)	tons	309	371	115	517	378
	Landfill	tons	10.0	18.0	3	38	22

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

- (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)

Main products:	Activated carbon, high performance activated carbon
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	Unit	FY2019	FY2020	FY2021	FY2022	FY2023	
GHG emissions (Scope1+Scope2)	1,000 t-CO ₂ e	24	31	33	25	25	
(inside number: CO ₂ emissions)	1,000 t-CO ₂ e	24	31	33	25	25	
Energy consumption (crude oil equivalent)	1,000 kl	8.9	9.6	9.8	9.9	10.9	
Raw materials used	1,000 tons	25	29	30	23	17	
Water intake	1,000 m ³	410	433	454	430	380	
Wastewater	1,000 m ³	312	317	326	337	309	
SOx emissions	tons	67	21	21	14	10	
NOx emissions	tons	6	25	31	26	15	
Soot and dust emissions	tons	3.3	2.8	1.8	1.4	1.3	
COD emissions	tons	1.5	1.4	1.0	0.8	1.3	
Ozone-layer depleting substance emissions	tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0	
Substances covered under JCIA's voluntary PRTR management program	Emissions	tons	8	1	1	0.5	0.2
	Transfer	tons	0.0	0.0	0.0	0.0	0.0
Substances covered under PRTR law	Emissions	tons	7	0	0	0.3	0.2
	Transfer	tons	0.0	0.0	0.0	0.0	0.0
Waste materials	Generated	tons	5,797	6,519	6,800	5,641	4,492
	Utilized (recycled)	tons	5,781	6,505	6,793	5,636	4,487
	Unutilized (including landfill)	tons	15	14	7	6	5
	Landfill	tons	15	14	7	6	5

2-2. Domestic Affiliated Companies

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

		Unit	FY2019	FY2020	FY2021	FY2022	FY2023
GHG emissions (Scope1+Scope2)		1,000 t-CO ₂ e	9	8	9	9	9
(inside number: CO ₂ emissions)		1,000 t-CO ₂ e	9	8	9	9	9
Energy consumption (crude oil equivalent)		1,000 kl	4.5	4.2	4.7	4.6	4.3
Raw materials used		1,000 tons	15	15	16	15	15
Water intake		1,000 m ³	801	694	746	740	675
Wastewater		1,000 m ³	745	644	698	685	620
SOx emissions		tons	0.2	0.2	0.2	0.2	0.2
NOx emissions		tons	0.6	0.5	0.5	0.4	0.4
Soot and dust emissions		tons	0.1	0.1	0.1	0.1	0.1
COD emissions		tons	0.7	0.6	0.4	6.0	4.8
Ozone-layer depleting substance emissions		tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR management program	Emissions	tons	112	86	123	120	100
	Transfer	tons	65.6	51	54	56	35
Substances covered under PRTR law	Emissions	tons	0.2	0.1	0.2	0.1	0.0
	Transfer	tons	58.8	46	49	50	32
Waste materials	Generated	tons	1,523	1,528	1,558	1,765	1,254
	Utilized (recycled)	tons	1,214	1,066	1,000	1,187	823
	Unutilized (including landfill)	tons	308	462	557	578	431
	Landfill	tons	255	363	362	377	281

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

(1) Address: 4330, Osa, Tarui-cho, Fuwa-gun, Gifu Prefecture

(2) Site area: 74,900 m²

(3) ISO 14001: Certification No. JQA-EM2934 (Certified on January 17, 2003)

Main products:	Hoses, driving pipes, laminates, compounds
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		Unit	FY2019	FY2020	FY2021	FY2022	FY2023
GHG emissions (Scope1+Scope2)		1,000 t-CO ₂ e	3.0	2.5	2.6	2.5	2.6
(inside number: CO ₂ emissions)		1,000 t-CO ₂ e	3.0	2.5	2.6	2.5	2.6
Energy consumption (crude oil equivalent)		1,000 kl	1.5	1.3	1.6	1.5	1.4
Raw materials used		1,000 tons	8	7	8	7	7
Water intake		1,000 m ³	696	607	656	645	582
Wastewater		1,000 m ³	696	607	656	645	582
SOx emissions		tons	0.0	0.0	0.0	0.0	0.0
NOx emissions		tons	0.2	0.1	0.1	0.0	0.0
Soot and dust emissions		tons	0.0	0.0	0.0	0.0	0.0
COD emissions		tons	0.7	0.6	0.4	0.8	1.4
Ozone-layer depleting substance emissions		tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR management program	Emissions	tons	109	85	120	119	100
	Transfer	tons	64.6	51	53	55	35
Substances covered under PRTR law	Emissions	tons	0.0	0.0	0.0	0.0	0.0
	Transfer	tons	58.7	46	49	50	32
Waste materials	Generated	tons	607	575	566	612	502
	Utilized (recycled)	tons	462	330	308	375	354
	Unutilized (including landfill)	tons	144	245	257	237	148
	Landfill	tons	143	238	251	230	141

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

- (1) Address: 56, Noune, Maruoka-cho, Sakai-gun, Fukui prefecture
 (2) Site area: 22,950 m²
 (3) ISO 14001: Certification No. JQA-EM3326 (Certified on August 22, 2003)

Main products:	MAGICTAPE (hook and loop fastener), MAGILOCK (molded plastic hook and loop fastener)
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		Unit	FY2019	FY2020	FY2021	FY2022	FY2023
GHG emissions (Scope1+Scope2)		1,000 t-CO ₂ e	2.9	2.8	3.2	2.8	2.2
(inside number: CO ₂ emissions)		1,000 t-CO ₂ e	2.9	2.8	3.1	2.8	2.2
Energy consumption (crude oil equivalent)		1,000 kl	1.4	1.3	1.6	1.4	1.1
Water intake		1,000 m ³	43	30	35	34	31
Wastewater		1,000 m ³	41	30	35	32	30
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 substance emissions		tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR management program	Emissions	tons	2.1	1.1	1.9	1.6	0.0
	Transfer	tons	1.1	0.5	1.0	0.8	0.0
Substances covered under PRTR law	Emissions	tons	0.2	0.1	0.1	0.1	0.0
	Transfer	tons	0.1	0.0	0.1	0.0	0.0
Waste materials	Generated	tons	229	206	216	193	143
	Utilized (recycled)	tons	208	193	201	178	132
	Unutilized (including landfill)	tons	21	14	15	15	11
	Landfill	tons	6.8	0.3	1.1	1.2	0.4

2-2-3. Okayama Plant, Kuraray Trading Co., Ltd. (including Okayama Tomiyoshi Plant)

- (1) Address: 1099, Aza-Shinden, Oaza-Kawabe, Mabi-cho, Kibi-gun,
Okayama Prefecture
 (2) Site area: 5,780 m²

Main products:	Industrial resin belts
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		Unit	FY2019	FY2020	FY2021	FY2022	FY2023
GHG emissions (Scope1+Scope2)		1,000 t-CO ₂ e	0.5	0.4	0.5	0.6	0.6
(inside number: CO ₂ emissions)		1,000 t-CO ₂ e	0.5	0.4	0.5	0.6	0.6
Energy consumption (crude oil equivalent)		1,000 kl	0.2	0.2	0.2	0.2	0.3
Raw materials used		1,000 tons	0.1	0.1	0.2	0.4	0.7
Water intake		1,000 m ³	4.0	4.0	4.2	4.6	5.0
Wastewater		1,000 m ³	4.0	4.0	4.2	4.6	5.0
SOx emissions		tons	0.2	0.2	0.2	0.2	0.2
NOx emissions		tons	0.4	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	5.2	3.4
Ozone-layer depleting substance emissions		tons of CFC equivalent	0.0	0.0	0.0	0.0	0.0
Substances covered under JCIA's voluntary PRTR management program	Emissions	tons	0.3	0.2	0.2	0.0	0.0
	Transfer	tons	0.0	0.0	0.0	0.0	0.0
Substances covered under PRTR law	Emissions	tons	0.0	0.0	0.0	0.0	0.0
	Transfer	tons	0.0	0.0	0.0	0.0	0.0
Waste materials	Generated	tons	58	44	49	63	57
	Utilized (recycled)	tons	55	40	47	60	55
	Unutilized (including landfill)	tons	3.1	3.3	2.0	2.8	2.0
	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)

	Unit	FY2019	FY2020	FY2021	FY2022	FY2023
GHG emissions (Scope1+Scope2)	1,000 t-CO ₂ e	1,921	1,816	1,680	1,660	1,555
Scope1 emissions	1,000 t-CO ₂ e	939	978	810	830	778
Scope2 emissions	1,000 t-CO ₂ e	981	838	870	830	777
Energy consumption (crude oil equivalent)	1,000 kl	637	580	623	635	665
Water intake	1,000 m ³	69,082	53,226	60,121	69,187	52,571
Tapwater	1,000 m ³	3,940	3,418	3,457	2,879	2,765
Subterranean river water	1,000 m ³				4,537	4,554
Groundwater	1,000 m ³	2,614	2,570	2,622	2,560	2,427
Industrial water	1,000 m ³	12,144	12,073	11,576	8,388	9,808
Seawater (including Rainwater)	1,000 m ³	50,384	35,166	42,466	50,824	33,017
Wastewater	1,000 m ³	60,796	44,177	52,687	64,512	49,450
SOx emissions	tons	1,126.0	801	848	676	975
NOx emissions	tons	482	469	487	441	603
Chemical substances	Emissions	tons	449	449	374	331
	Transfer	tons	11,105	7,782	8,266	7,028
Waste materials	Generated	tons	81,710	75,683	75,951	72,792
	Utilized (recycled)	tons	32,641	36,232	39,667	32,754
	Unutilized (including landfill)	tons	49,069	39,451	36,284	40,038
	Landfill	tons	27,593	20,305	18,985	21,133
						49,290

<Overseas locations covered>

<p> 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) </p>	<p> 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 </p>
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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%)

	Unit	FY2019	FY2020	FY2021	FY2022	FY2023
Carbon dioxide (CO ₂)	1,000 t-CO ₂ e	2,035	2,018	1,947	1,866	1,745
Methane (CH ₄)	1,000 t-CO ₂ e	1.5	1.5	0.6	0.4	0.4
Nitrous oxide (N ₂ O)	1,000 t-CO ₂ e	23	25	24	9	2
Hydrofluorocarbons (HFCs)	1,000 t-CO ₂ e	1.2	0.8	1.2	1.3	1.0
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	0.4	0.0	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.

(Coverage: 99.7%)

	Unit	FY2019	FY2020	FY2021	FY2022	FY2023
Sales intensity of energy consumption (Kuraray Group (overall))	–	100.0	–	–	82.8	83.3
Sales intensity of waste generation (Kuraray Group (overall))	–	100.0	–	–	72.0	76.3
Sales intensity of water resources (excluding seawater) (Kuraray Group (overseas))	–	100.0	–	–	74.4	78.0

<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.

(Coverage: 99.7%)

	Unit	FY2019	FY2020	FY2021	FY2022	FY2023
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.