

JSR Group ESG Data

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Unless otherwise noted, FY (Fiscal Year) means the year starting April 1st. For example, FY2021 means April 1, 2021 - March 31, 2022

For both absolute values and percentages, numerical values that fall below the shown number of digits are rounded off. For this reason, the sums of individual numbers may differ from the sum values provided.

The numerical values in **red indicate places** where we have revised last year's values.

The post-business transfer base for FY2021 refers to numerical values (reference values) we have calculated by subtracting the parts relating to the elastomer business from the actual values for FY2021.

We transferred our Elastomer business to ENEOS Corporation in April 2022. In line with that, we also transferred the Utility Department of our Yokkaichi Plant which is our main plant in Japan. We postponed third-party verification in this fiscal year due to the transition to these new structures. However, we plan to resume and continue third-party verification from the next fiscal year onward.



JSR Corporation

Created Sep., 2022

Corrected Dec., 2022

(Education and training expenses on Page 10)

◆ Environment Data

Environmental Impact of Business Activities

Category	Items	Boundary ※			Unit	FY2017	FY2018	FY2019	FY2020	FY2021	FY2021 Ex elastomer business	
		A	B	C								
Input Data	Raw materials consumption		○ ○ ○		1,000 kL	1,400	1,394	1,267	1,042	1,306	345	
			○ ○ ○			828	823	707	589	757	7	
			○ ○ ○			428	417	358	318	369	332	
			○ ○ ○			144	154	202	134	181	6	
	Energy consumption	(Crude oil equivalent)	○ ○ ○		1,000 kL	421	429	400	369	439	109	
			○ ○ ○			266	269	251	230	254	26	
			○ ○ ○			77	77	68	66	72	67	
		Intensity			kL/ton	78	83	81	73	113	16	
						○ ○ ○	0.35	0.36	0.38	0.42	0.37	-
						○ ○ ○	0.18	0.18	0.18	0.20	0.19	-
	Water consumption	(Excluding seawater)	○ ○ ○		1,000 m ³	19,578	20,894	20,632	18,734	21,710	3,985	
			○ ○ ○			14,259	15,275	14,888	13,620	15,133	231	
			○ ○ ○			3,822	3,681	3,970	3,619	3,972	3,582	
			○ ○ ○			1,497	1,938	1,774	1,495	2,605	172	
		Intensity			m ³ /ton	19.0	20.5	22.5	25.1	21.9	-	
						○ ○ ○	8.7	8.5	10.6	10.9	10.6	-
						○ ○ ○	10.9	13.5	10.5	11.5	13.7	-
		Industrial water			1,000 m ³	13,667	14,790	14,309	13,193	14,672	114	
						○ ○ ○	200	172	171	169	186	117
						○ ○ ○	393	313	408	259	275	0
○ ○ ○	55,011					64,296	56,354	51,319	55,370	5,996		
Recycled water			1,000 m ³	4,250	4,481	4,210	3,624	4,322	-			
				○ ○ ○	29.8	29.3	28.3	26.6	28.6	-		
Effective use rate of recycled water			%	29.8	29.3	28.3	26.6	28.6	-			
				○ ○ ○	29.8	29.3	28.3	26.6	28.6	-		
Output Data	Total generated		○ ○ ○		1,000 tons	1,330	1,320	1,205	1,006	1,255	348	
			○ ○ ○			752	746	661	543	691	3	
			○ ○ ○			440	431	375	333	374	339	
			○ ○ ○			137	144	169	130	190	5	
	Industrial waste generation		○ ○ ○		1,000 tons	72	72	70	67	66	20	
			○ ○ ○			49	50	47	49	47	5	
			○ ○ ○			18	16	16	11	10	10	
			○ ○ ○			5	7	7	7	8	5	
		Comparison with FY2013			%	-5.5	-4.5	-10.2	-6.4	-8.8	-	
						○ ○ ○	0.065	0.067	0.071	0.090	0.069	-
		Intensity			Tons/tons	0.040	0.037	0.044	0.034	0.028	-	
						○ ○ ○	0.039	0.046	0.041	0.051	0.044	-
						○ ○ ○	0.039	0.046	0.041	0.051	0.044	-
		Recycled waste		○ ○ ○		1,000 tons	39	38	41	34	40	17
	○ ○ ○			23			21	23	21	24	5	
	○ ○ ○			14			12	12	9	10	8	
	○ ○ ○			2			5	5	4	6	4	
	Intensity			Tons/tons	0.031	0.028	0.035	0.039	0.035	-		
					○ ○ ○	0.032	0.028	0.032	0.026	0.026	-	
					○ ○ ○	0.016	0.037	0.032	0.035	0.031	-	
Amount of final offsite- landfills		○ ○ ○		1,000 tons	0.9	0.9	1.9	0.8	1.2	0.1		
		○ ○ ○			0	0	0	0	0	0		
		○ ○ ○			0.2	0.3	1.2	0.2	0.0	0.0		
		○ ○ ○			0.7	0.6	0.7	0.6	1.2	0.1		
Intensity			Tons/tons	0	0	0	0	0	-			
				○ ○ ○	0.0004	0.0008	0.0033	0.0007	0.0000	-		
				0.0053	0.0039	0.0043	0.0046	0.0062	-			
				○ ○ ○	0.0053	0.0039	0.0043	0.0046	0.0062	-		

*Boundaries A: JSR Corporation B: Group companies in Japan C: Group companies in other countries

Category	Items	Boundary ※			Unit	FY2017	FY2018	FY2019	FY2020	FY2021	FY2021 Ex elastomer business	
		A	B	C								
O u t p u t D a t a	Greenhouse gas emissions	Scope1 + Scope2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1,000 tons CO ₂	1,019	1,040	973	892	1,013	260
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		653	666	625	568	618	77
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		198	199	176	168	165	156
		Comparison with FY2013	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	%	1.1	3.1	-3.3	-12.1	-4.3	-
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0.87	0.89	0.95	1.05	0.89	-
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0.45	0.46	0.47	0.51	0.44	-
	Waste water	Total amount of waste water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1,000 m ³	16,968	17,587	16,049	14,616	16,258	3,940
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		12,108	12,479	11,250	10,141	10,728	335
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		3,975	4,077	3,741	3,490	3,713	3,470
		Intensity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	m ³ /ton	885	1,031	1,059	984	1,817	134
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		16.1	16.7	17.0	18.7	15.5	-
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		9.0	9.5	10.0	10.5	9.9	-
	Waste water	COD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tons	6.4	7.2	6.3	7.6	9.6	-
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		530	580	495	401	486	51
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		457	481	404	346	436	1
		Intensity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x10 ⁻⁵ tons/tons	74	98	91	54	50	50
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		607	645	611	638	631	-
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		167	228	243	163	134	-
		Total nitrogen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tons	173	144	160	112	148	10
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		156	129	145	102	138	0
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		18	14	14	10	10	10
		Intensity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x10 ⁻⁵ tons/tons	207	174	220	188	199	-
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		41	33	38	31	27	-
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1	1	1	1	1	0
Atmospheric emissions	SO _x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tons	0.7	0.6	0.6	0.7	0.6	0.0	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0.3	0.5	0.4	0.3	0.2	0.2	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0.9	0.7	1.0	1.3	0.8	-	
	Intensity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x10 ⁻⁵ tons/tons	0.7	1.1	1.0	0.8	0.4	-	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		13	13	11	11	11	6	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		5	4	4	4	4	0	
PRTR (In Japan only)	NO _x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tons	8	8	7	6	6	6	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0	0	0	0	0	0	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0.6	0.6	0.6	0.8	0.6	-	
	Intensity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x10 ⁻⁵ tons/tons	1.9	1.9	1.7	1.9	1.6	-	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0.0	0.0	0.0	0.0	0.2	-	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		375	349	342	287	290	37	
	VOC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tons	335	308	303	244	250	0	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		34	33	31	35	31	31	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		6	8	9	7	9	5	
	Intensity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x10 ⁻⁵ tons/tons	45	41	46	45	36	-	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		7.8	7.8	8.2	10.6	8.4	-	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		4.4	5.3	5.1	5.6	4.8	-	
Transported waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tons	633	575	568	483	607	46		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		583	536	523	435	572	11		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		50	39	45	47	35	35		
Amount handled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tons	0.8	0.7	0.8	0.8	0.8	-		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		11.3	9.0	12.1	14.2	9.4	-		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		981,530	960,932	842,045	697,162	870,093	207,961		
PRTR (In Japan only)	Amount handled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tons	739,259	725,727	632,835	523,163	665,910	3,919	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		242,272	235,205	209,210	174,000	204,183	204,042	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		168	134	170	154	153	40	
	Atmospheric emissions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tons	119	95	124	106	118	6	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		50	39	45	47	35	35	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		10	11	9	8	8	7	
	Water supply discharge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tons	2	3	2	2	2	0	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		8	8	7	6	7	7	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1,031	890	897	807	1,060	827	
	Transported waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tons	445	328	338	348	617	385	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		586	562	559	458	443	442	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								

*Boundaries A: JSR Corporation B: Group companies in Japan C: Group companies other than Japan

Accounting for Greenhouse Gas Emissions Throughout the Supply Chain

Note: From FY 2018, other indirect emissions (Scope 3) category 1 has been changed to be calculated for all JSR Group.

Category	Boundary	FY2017 Emission		FY2018 Emission		FY2019 Emission		FY2020 Emission		FY2021 Emission		FY2021 Emission Ex elastmor business	
		t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)
I. Direct emissions (Scope 1)	JSR Group	418,037	25.0	439,556	20.3	408,480	20.3	398,733	22.6	356,660	17.2	35,999	5.9
II. Energy-derived indirect emissions (Scope 2)		601,141	36.0	600,485	27.7	564,108	28.1	492,844	28.0	656,095	31.5	223,508	36.6
III. Other indirect emissions (Scope 3)		649,724	38.9	1,129,175	52.1	1,038,302	51.6	869,723	49.4	1,067,169	51.3	350,683	57.5

I. Direct emissions (Scope 1)	JSR Corporation	383,394	29.9	404,131	31.6	374,483	32.4	365,397	35.5	318,489	26.7	1,944	1.6
II. Energy-derived indirect emissions (Scope 2)		269,797	21.1	262,009	20.5	250,404	21.6	202,192	19.7	299,605	25.2	74,711	62.1
III. Other indirect emissions (Scope 3)		627,963	49.0	614,841	48.0	532,859	46.0	461,577	44.9	572,972	48.1	43,672	36.3
I. Direct emissions (Scope 1)	Group companies in Japan	28,088	13.2	27,067	4.7	24,818	5.0	25,307	5.6	25,552	5.2	24,230	5.4
II. Energy-derived indirect emissions (Scope 2)		169,611	79.5	172,262	30.0	151,569	30.4	142,854	31.5	139,623	28.3	131,846	29.2
III. Other indirect emissions (Scope 3)		15,665	7.3	374,074	65.2	322,890	64.7	284,926	62.9	327,509	66.5	295,027	65.4
I. Direct emissions (Scope 1)	Group companies other than Japan	6,555	3.8	8,358	2.7	9,179	2.6	8,028	2.9	12,619	3.2	9,825	25.4
II. Energy-derived indirect emissions (Scope 2)		161,734	92.7	166,215	52.8	162,135	45.8	147,798	53.0	216,867	54.7	16,951	43.7
III. Other indirect emissions (Scope 3)		6,096	3.5	140,260	44.6	182,553	51.6	123,221	44.2	166,688	42.1	11,984	30.9

Other indirect emissions (Breakdown of Scope 3)

(1) JSR Corporation

Category	Contents	FY2017 Emission		FY2018 Emission		FY2019 Emission		FY2020 Emission		FY2021 Emission		FY2021 Emission Ex elastmor business	
		t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)
Category 1	Purchased goods and services	547,887	87.2	540,653	87.9	447,580	84.0	371,339	80.5	493,598	86.2	6,047	13.9
Category 2	Capital goods	40,628	6.5	35,907	5.8	51,266	9.6	61,278	13.3	46,426	8.1	32,727	74.9
Category 3	Fuel and energy related activities not included in Scope 1 or 2	6,788	1.1	6,958	1.1	6,217	1.2	6,530	1.4	6,157	1.1	0	0.0
Category 4	Transportation and delivery (upstream)	13,177	2.1	13,112	2.1	10,706	2.0	7,559	1.6	8,537	1.5	188	0.4
Category 5	Waste from business operations	6,886	1.1	5,738	0.9	6,154	1.2	5,436	1.2	7,674	1.3	3,285	7.5
Category 6	Business travel	328	0.1	338	0.1	347	0.1	354	0.1	350	0.1	201	0.5
Category 7	Employee commuting	1,184	0.2	1,221	0.2	1,255	0.2	1,278	0.3	1,263	0.2	726	1.7
Category 8	Leased assets (upstream)	19	0.0	19	0.0	22	0.0	14	0.0	19	0.0	15	0.0
Category 9	Transportation and delivery (downstream)	11,065	1.8	10,894	1.8	9,312	1.7	7,790	1.7	8,948	1.6	483	1.1
Category 10	Processing of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 11	Use of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 12	Disposal of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 13	Leased assets (downstream)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Category 14	Franchises	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Category 15	Investments	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Total of Scope3 (Category 1 - Category 15) 627,963 100 614,841 100 532,859 100 461,577 100 572,972 100 43,672 100
(N/A: not applicable, -: no data)

(2) Group companies in Japan

Category	Contents	FY2017 Emission		FY2018 Emission		FY2019 Emission		FY2020 Emission		FY2021 Emission		FY2021 Emission Ex elastmor business	
		t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)
Category 1	Purchased goods and services	-	-	360,084	96.3	308,621	95.6	274,770	96.4	318,173	97.2	286,209	97.0
Category 2	Capital goods	-	-	-	-	-	-	-	-	-	-	-	-
Category 3	Fuel and energy related activities not included in Scope 1 or 2	-	-	-	-	-	-	-	-	-	-	-	-
Category 4	Transportation and delivery (upstream)	-	-	-	-	-	-	-	-	-	-	-	-
Category 5	Waste from business operations	14,567	93.0	12,848	3.4	13,140	4.1	9,046	3.2	8,189	2.5	7,777	2.6
Category 6	Business travel	226	1.4	237	0.1	235	0.1	234	0.1	240	0.1	217	0.1
Category 7	Employee commuting	816	5.2	855	0.2	847	0.3	843	0.3	865	0.3	783	0.3
Category 8	Leased assets (upstream)	23	0.1	19	0.0	22	0.0	10	0.0	13	0.0	13	0.0
Category 9	Transportation and delivery (downstream)	-	-	-	-	-	-	-	-	-	-	-	-
Category 10	Processing of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 11	Use of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 12	Disposal of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 13	Leased assets (downstream)	33	0.2	31	0.0	25	0.0	24	0.0	29	0.0	29	0.0
Category 14	Franchises	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Category 15	Investments	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total of Scope3 (Category 1- Category 15)		15,665	100	374,074	100	322,890	100	284,926	100	327,509	100	295,027	100

(N/A: not applicable, -: no data)

(3) Group Companies other than Japan

Category	Contents	FY2017 Emission		FY2018 Emission		FY2019 Emission		FY2020 Emission		FY2021 Emission		FY2021 Emission Ex elastmor business	
		t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)
Category 1	Purchased goods and services	-	-	132,802	94.7	174,724	95.7	115,810	94.0	156,236	93.7	5,539	46.2
Category 2	Capital goods	-	-	-	-	-	-	-	-	-	-	-	-
Category 3	Fuel and energy related activities not included in Scope 1 or 2	-	-	-	-	-	-	-	-	-	-	-	-
Category 4	Transportation and delivery (upstream)	-	-	-	-	-	-	-	-	-	-	-	-
Category 5	Waste from business operations	4,427	72.6	5,382	3.8	5,633	3.1	5,412	4.4	7,783	4.7	4,526	37.8
Category 6	Business travel	180	3.0	190	0.1	203	0.1	213	0.2	327	0.2	208	1.7
Category 7	Employee commuting	650	10.7	685	0.5	733	0.4	768	0.6	1,179	0.7	750	6.3
Category 8	Leased assets (upstream)	839	13.8	839	0.6	896	0.5	656	0.5	801	0.5	599	5.0
Category 9	Transportation and delivery (downstream)	-	-	-	-	-	-	-	-	-	-	-	-
Category 10	Processing of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 11	Use of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 12	Disposal of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 13	Leased assets (downstream)	0	0.0	362	0.3	362	0.2	362	0.3	362	0.2	362	3.0
Category 14	Franchises	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Category 15	Investments	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total of Scope3 (Category 1- Category 15)		6,096	100	140,260	100	182,553	100	123,221	100	166,688	100	11,984	100

(N/A: not applicable, -: no data)

Categories of Greenhouse Gas Emissions Throughout

Category	Emissions subject to calculation
I. Direct emissions (Scope 1)	<ul style="list-style-type: none"> ■ Direct emissions from the use of fuel and industrial processes by the reporting company
II. Energy-derived indirect emissions (Scope 2)	<ul style="list-style-type: none"> ■ Emissions from the use of electricity and heat purchased by the reporting company
III. Other indirect emissions (Scope 3)	<ul style="list-style-type: none"> • Added as a new calculation item in FY2016 • Expansion of calculation range for some new items in FY2018

Other indirect emissions (Breakdown of Scope 3)

Category 1	<p>Emissions from activities up to the manufacture of raw materials, parts, purchased goods, sales-related materials, etc.</p> <ul style="list-style-type: none"> • Calculated for JSR only from FY2016. • Expansion of calculation range for some new items in FY2018.
Category 2	<p>Emissions from the construction and manufacturing of the reporting company's capital goods</p> <ul style="list-style-type: none"> • Calculated for JSR only from FY2016.
Category 3	<p>Emissions from the procurement of fuel used in power generation, etc., for electricity and heat procured from other entities</p> <ul style="list-style-type: none"> • Calculated for JSR only.
Category 4	<p>(1) Emissions from the distribution of raw materials, parts, purchased goods, sales-related materials, etc., up to delivery to the reporting company</p> <p>(2) Emissions (emissions from the distribution paid for by the reporting company) amount of activity from distribution services other than (1) above (transport, handling, and storage) purchased in the fiscal year of the report: Amount of shipment distribution in Japan and other countries</p> <ul style="list-style-type: none"> • Calculated for JSR only.
Category 5	<p>Emissions from the transportation and processing of waste generated by the reporting company</p>
Category 6	<p>Emissions from employee business travel</p>
Category 7	<p>Emissions from employee transportation when commuting to and from the place of business</p>
Category 8	<p>Emissions from the operation of assets leased to the reporting company (excluding emissions calculated under Scope 1 or 2)</p>
Category 9	<p>Emissions from the transport, storage, cargo handling, and retail sales of products (limited to those items not paid for by the reporting company)</p> <ul style="list-style-type: none"> • Calculated for JSR only.
Category 10	<p>Emissions from the processing of intermediate products by the reporting company</p> <ul style="list-style-type: none"> • This category is excluded from calculation because the company is a chemical intermediates manufacturer.
Category 11	<p>Emissions from the use of products by users (consumers and companies)</p> <ul style="list-style-type: none"> • This category is excluded from calculation because the company is a
Category 12	<p>Emissions from the transportation and processing of products upon disposal by users (consumers and companies)</p> <ul style="list-style-type: none"> • This category is excluded from calculation because the company is a chemical intermediates manufacturer.
Category 13	<p>Emissions from the operation of assets leased to other entities</p>
Category 14	<p>Emissions from franchises</p> <ul style="list-style-type: none"> • No emissions; business structures are not franchises.
Category 15	<p>Emissions from investment to earn profit</p> <ul style="list-style-type: none"> • This category is excluded from calculation because it is not applicable to "investment to earn profit."

FY2021 Emissions of Chemical Substances (PRTR)

Totals for JSR Corporation (Yokkaichi Plant, Chiba Plant, Kashima Plant and Tsukuba Research Laboratories)

Ordinance designated number	Substance	Amounts handled* ² (t)	Emissions			Transfers* ³ (t)
			Atmospheric (t)	Water (t)	Soil (t)	
1	Zinc compounds (water-soluble)	1.1	0.0	1.1	0.0	0.0
2	Acrylamide	61.2	0.0	0.0	0.0	0.0
4	Acrylic acid and its water-soluble salts	547.0	0.0	0.0	0.0	0.0
7	n-Butyl acrylate	14.9	0.0	0.0	0.0	0.0
9	Acrylonitrile	14,262.7	0.4	0.0	0.0	0.9
13	Acetonitrile	127.6	0.1	0.5	0.0	36.1
20	2-Aminoethanol	1.1	0.0	0.0	0.0	0.1
28	Allyl alcohol	4.0	0.0	0.0	0.0	2.2
30	n-Alkylbenzenesulfonic acid and its salts (limited to those with 10 to 14 alkyl group carbons and their mixtures)	472.9	0.0	0.0	0.0	0.0
36	Isoprene	51,870.9	0.2	0.0	0.0	2.3
53	Ethylbenzene	1.5	0.0	0.0	0.0	0.0
71	Ferric chloride	22.1	0.0	0.0	0.0	0.0
80	Xylene	3.3	0.0	0.0	0.0	0.0
86	Cresol	11.4	0.0	0.0	0.0	0.0
186	Dichloromethane (also called methylene chloride)	3.3	1.0	0.0	0.0	2.0
190	Dicyclopentadiene	15,795.3	0.1	0.0	0.0	48.7
202	Divinylbenzene	39.5	0.0	0.0	0.0	0.0
203	Diphenylamine	60.1	0.0	0.0	0.0	0.0
207	2,6-di-tert-butyl-4-cresol (also called BHT)	538.9	0.7	0.0	0.0	0.1
220	Water-soluble salts of dimethyldithiocarbamic acid	59.4	0.0	0.0	0.0	0.0
230	N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine	155.3	0.0	0.0	0.0	0.0
240	Styrene	49,273.5	7.0	0.0	0.0	2.6
274	Tert-dodecanethiol	570.4	0.0	0.0	0.0	0.0
276	3, 6, 9-triazaundecane-1, 11-diamine (also called tetraethylenepentamine)	12.6	0.0	0.0	0.0	3.1
300	Toluene	1,970.4	71.8	0.2	0.0	395.5
321	Vanadium compounds	40.0	0.0	0.0	0.0	39.2
337	4-Vinyl-1-cyclohexene	59.9	0.0	0.0	0.0	0.4
351	1,3-Butadiene	527,164.7	4.9	0.0	0.0	0.2
392	n-Hexane	672.9	31.3	0.0	0.0	83.3
395	Water-soluble salts of peroxydisulfuric acid	529.9	0.0	0.0	0.0	0.0
411	Formaldehyde	2.4	0.0	0.0	0.0	0.0
415	Methacrylic acid	86.1	0.0	0.0	0.0	0.0
420	Methyl methacrylate	1,472.1	0.4	0.0	0.0	0.1
440	1-Methyl-1-phenylethyl hydroperoxide	1.9	0.0	0.0	0.0	0.0
	Total	665,910.1	117.9	1.8	0.0	616.9
243	Dioxins* ³	-	0.0480	0.0250	0.0000	0.0000

*1 The handling amount represents the value after base deduction (1 ton/year per place of business)

*2 The transfer amount is the amount committed to intermediate waste service companies plus the amount discharged into public sewers

*3 Dioxin category unit: mg-TEQ

◆ Social Data

Workplace Accidents (calendar year)

		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business
Number of Workplace Accidents Lost time injury () Indicates non-working accident	JSR Corporation	Same as shown at left	Accident	2 (3)	0 (0)	1 (0)	0 (0)	1 (2)	0 (2)
	Manufacturing partners of JSR			2 (0)	1 (0)	0 (4)	2 ^{*1} (1)	0 (1)	0 (0)
	Group companies in Japan			0 (3)	2 (3)	3 (4)	1 (2)	4 (3)	2 (2)
	Manufacturing partners of Group companies in Japan			2 (2)	0 (2)	2 (3)	1 (2)	1 (3)	1 (3)
Lost time injury	Frequency ^{*2}	JSR Corporation	–	0.48	0.00	0.24	0.00	0.23	–
	Severity ^{*3}	Corporation	–	0.04	0.00	0.00	0.00	0.00	–
	Frequency ^{*2}	Statistics by JCIA ^{*4}	–	0.36	0.31	0.42	0.28	not yet open	–

*1 Includes one fatal accident

*2 Frequency = (Deaths or injuries in workplace accidents resulting in absence from work ÷ total working hours for all employees) × 1 million

*3 Severity = (Total days of lost work accidents / Total number of actual working hours) × 1000

*4 Source: JCIA (=Japan Chemical Industry Association) statistical data (occupational safety and health fact-finding results)

Equipment accidents (calendar year)

		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business
Number of facility accidents	Leakage ^{*5}	JSR Corporation	Accident	1	2	1	4	0	0
	Fire ^{*5}			1	0	0	1	0	0
	Leakage ^{*5}	Group companies in Japan	Accident	1	3	3	1	1	0
	Fire ^{*5}			0	1	2	0	0	0

*5 Based on the definition of an "abnormal phenomenon" in the Act on the Prevention of Disaster in Petroleum Industrial Complexes and Other Petroleum Facilities

ISO 45001 Certification (Manufacturing Bases) as of March 31, 2022

Company name	Certification number	Certification acquisition date (Updated)	Expiry date
Techno-UMG Co., Ltd. Ube Plant	JQA-OH0037	March 1, 2021	February 29, 2024
JSR Micro Kyushu Co., Ltd.	JQA-OH0319	March 27, 2020	March 26, 2023
JSR Micro N.V.	BE20/819943937	April 25, 2020	April 24, 2023
JSR Micro, Inc.	OHS13340	March 18, 2022	March 17, 2025

◆ Social Data

Logistics disaster/accident

	Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business
Logistics-related workplace accidents	JSR Corporation	Accident	-	0	0	0	0	0
Traffic accidents resulting in injury to others			-	0	0	0	0	0
Traffic accidents resulting in injury to JSR employee			-	0	0	0	0	0

Achieving a modal shift

	Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business
Transport volume * ⁶	JSR Corporation	1 million tons-km	534	514	434	324	377	3
Modal shift rate * ⁷		%	86	85	85	83	85	0

*⁶ Transport volumes for products and raw materials transported and delivered from JSR Corporation's own warehouses and contracted outside warehouses to specified destinations in Japan

*⁷ Ton-km: [Cargo weight (tons)] x [transport distance (kilometers)]

ISO 9001 Certification as of June,2022

Company / Site name		Certification number	Certification acquisition date
JSR Corporation	Yokkaichi plant	JQA-0396	February 9, 1994
JSR Micro Kyushu Co., Ltd.		JQA-3163	March 12, 1999
Emulsion Technology, Co., Ltd.		NQA-16050168A	November 30, 1998
Techno-UMG Co., Ltd.	Yokkaichi plant	JCQA-0700	May 15, 2000
	Ube plant, Ootake plant	JCQA-1508	July 19, 1994
JAPAN COLORING CO., LTD.		NQA-16100028A	March 19, 1996
UBE JYUSHIKAKOU, LTD		02843-2016-AQ-KOB-JAS-ANZ	October 17, 2002
JSR Life Sciences Corporation		JP13/062551	November 23, 2010
JSR Logistics & Customer Center Co., Ltd.		JQA-0396	February 9, 1994
JSR Micro, Inc. (USA)		10305	April 17, 1998
JSR Micro N.V. (Belgian)		BE91/03002	October 1, 2004
JSR Micro Korea Co., Ltd. (Korea)		FM 88265	October 11, 2004

ISO 13485* Certification as of June,2022

Company / Site name		Certification number	Certification acquisition date
MEDICAL & BIOLOGICAL LABORATORIES CO., LTD.	Ina Laboratory	JP06/040213	October 11, 2006

* ISO13485: Quality management system for medical devices

◆ Social Data

Human Resources Data

		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business
Consolidated number of employees		JSR Group	Person	7,203	8,748	9,050	9,383	9,696	—
Non-regular employee ratio (non-regular / employee + non-regular)			%	9	13	8	7	12	—
Employee ratios by region	Japan	JSR Group	%	64	60	59	57	53	—
	Asia (excluding Japan)			19	16	20	21	21	—
	United States			13	20	16	18	20	—
	Europe			4	4	5	4	6	—

As of the end of each fiscal year (March 31)

		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business	
% of female employees		JSR Group* ¹	%	—	—	18	17	29	—	
Number of employees	Male	JSR Corporation* ³	Person	2,848	2,883	2,933	2,974	2,902	1,776	
	Female			483	494	515	537	531	397	
	Total			3,331	3,377	3,448	3,511	3,433	2,173	
Number of hires	New graduates* ²			Male	66	74	89	101	42	27
				Female	15	15	18	29	12	11
				Total	81	89	107	130	54	38
	Mid-career			Male	23	31	25	22	30	16
				Female	4	11	7	3	5	3
				Total	27	42	32	25	35	19
Average number of years of continuous service	Male			Year	13.2	12.9	13.3	13.6	13.8	—
	Female	15.1	14.8		14.7	14.7	14.6	—		
	Total	13.5	13.2		13.5	13.8	13.9	—		
Turnover rate for personal reasons		%	1.1	1.4	1.2	1.3	5.4* ⁴	—		
Turnover rate within three years of joining company			1.1	6.4	7.4	6.9	9.3	—		
Layoff			Person	0	0	0	0	0	—	

As of the end of each fiscal year (March 31)

*1 We changed the scope of aggregation to companies subject to consolidation in FY2021. Please refer to the consolidated companies in the list of the Group's companies for the scope of aggregation. This is the percentage with respect to the total of 9,651 employees in the scope of aggregation.

*2 As of the beginning of each fiscal year (April 1)

*3 Including seconded employees

*4 We provided an early retirement incentive plan in FY2021.

Annual Total Working Hours/Annual Total Overtime Hours/Average annual salary

		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business
Total working hours per employee		JSR Corporation* ³	Hour	1,966	1,969	1,950	1,903	1,921	—
Total overtime hours per employee				215	220	214	148	158	—
% of annual paid leave taken			%	—	—	85.2	81.0	87.4	—
Average annual salary* ⁴		JSR Corporation	1,000 JPY	7,432	7,551	7,546	7,360	7,446	—

*3 Including seconded employees

*5 Average annual salary includes bonuses and non-standard wages.

◆ Social Data

Education/Training and Overseas Assignments

		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business
Total training time* ⁶		JSR Corporation* ³	Hour	55,994	49,671	64,334	43,624	34,591	–
Training time per employee* ⁶			Hour/Person	16.8	14.7	18.7	12.4	10.1	–
Total amount of education and training expenses* ⁶			1,000 JPY	87,139	108,189	148,711	115,513	120,628	–
Education and training expense per employee* ⁶			JPY/Person	26,160	32,037	43,130	32,900	35,148	–
e-learning programs	Principles of Corporate Ethics	JSR Corporation & its group companies in Japan	Hour/Person	0.5	0.5	0.5	0.5	0.5	0.5
	Anti-monopoly law · anti-corruption · subcontract law management			0.5	0.5	0.5	0.5	0.5	0.5
	Information security			0.5	0.5	0.5	0.5	0.5	0.5
	Quality compliance			0.5	1.0	0.5	–	0.5	0.5
	Work style reform law			–	0.5	–	0.5	–	–
	Prevention of insider trading			–	–	–	–	0.5	0.5
	Drainage* ⁷			–	–	–	–	0.5	0.5
	Confidential information management	JSR Corporation	Hour/Person	0.5	0.5	0.5	0.5	0.5	0.5
Safety				–	–	0.5	0.5	0.5	0.5
Number of employees utilizing overseas research dispatch system		JSR Corporation* ³	Person	9	8	11	6	5	–

*3 Including seconded employees

*6 We aggregate technical/skills training and education by level in the organization held by the Personnel Department. Therefore, the hours and expenses for education held by departments other than the Personnel Department, the education unique to each department and education provided by those outside the Company are not included in these training hours and expenses. The hours and expenses for e-learning education are also not included.

◆ Social Data

Diversity Development

		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business
% of women hired annually per position* ²	College graduates, engineering positions	JSR Corporation* ³	%	20	18	22	26	30	33
	College graduates, administrative position			50	45	50	55	60	60
% of women in managerial positions* ²	3.8			4.1	4.3	4.1	4.5	5.4	
% of female workers at section chief level			%	–	–	8.9	9.4	8.8	11.0
% of female executives			%	–	–	6.1	9.1	12.1	–
Career Re-Entry System	Number of people registered		Person	4	5	5	3	1	1
	Number of people employed			1	2	2	2	0	0
Number of employees using leave system for when an employee's spouse is transferred overseas* ⁸			Person	–	–	–	0	1	–
Promotion of activities by employees who have reached retirement age	Number of retirees re-employed		Person	53	38	22	24	18	–
	Rate of retirees who are re-employed		%	72	81	81	86	69	–
Hiring of foreign nationals		Person	3	1	3	7	1	1	
Employment rate of individuals with disabilities		%	2.47	2.43	2.38	2.34	2.24	2.58	

As of the end of each fiscal year (March 31)

*² As of the beginning of each fiscal year (April 1)

*³ Including seconded employees

*⁸ We started providing a leave system for when an employee's spouse is transferred overseas in FY2020.

◆ Social Data

Work-Life Management Data									
Work-balance support system* ⁹		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business
Fertility treatment	Number of employees using shorter working hours		Person	1	2	0	0	0	–
	Number of employees using prenatal & postpartum maternity leave system* ¹⁰			21	24	19	18	19	–
Childbirth	Number of employees using childcare leave system* ^{10,*11}	Female	Person	24	22	14	15	21	17
		Male		42	38	61	59	101	62
		Total		66	60	75	74	122	79
	Childcare leave system take-up rate* ^{10,*11}	Female	%	100	100	100	100	100	–
		Male		31.0	24.5	42.7	50.9	72.7	–
	Number of days of childcare leave taken on average	Male	Days	17.7	11.9	13.0	19.6	19.2	–
	Rate of employees who return to work after taking childcare leave	Female	%	100	100	100	100	100	–
		Male		100	100	100	100	100	–
	Retention rate one year after returning to work from childcare leave* ¹²	Female	%	–	96	100	95	100	–
		Male		–	100	98	100	96	–
Retention rate three years after returning to work from childcare leave* ¹³	Female	%	–	–	–	96	100	–	
	Male		–	–	–	98	95	–	
Number of employees using extended childcare leave counseling			Person	13	28	15	17	13	–
Balancing work and childcare	Number of employees using shorter working hours* ¹⁴		Person	91	101	113	119	122	–
Balancing work and nursing care	Number of employees using shorter working hours		Person	3	1	1	2	1	–
	Number of employees using nursing care leave* ¹⁰			8	7	11	6	4	–
	Number of employees using extended nursing care leave			0	1	3	0	0	–
Other	Number of employees using discretionary work system* ²		Person	108	111	122	122	169	146
	Number of employees using volunteer leave (The value in parentheses represents the total number of leave days taken)			0 (0)	7 (17)	2 (2)	0 (0)	0 (0)	–

As of the end of each fiscal year (March 31)

*2 As of the beginning of each fiscal year (April 1)

*3 Including seconded employees

*9 The telecommuting system has been implemented since fiscal 2019 by eliminating the requirements for childcare and nursing care.

*10 At the request of employees who use various systems, we lend mobile devices that can access our corporate network from home.

*11 Total number of employees who took childcare leave in that fiscal year

*12 Percentage of the number of employees who remain with the Company at the end of the fiscal year (n) among the number of employees who return to work from childcare leave in the applicable fiscal year (n-1)

*13 Percentage of the number of employees who remain with the Company at the end of the fiscal year (n) among the number of employees who return to work from childcare leave in the applicable fiscal year (n-3)

*14 Number of employees including users of the system during pregnancy

◆ Social Data

Number of employees eligible for work-balance support allowances	Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business
Extended childcare leave allowance	JSR Corporation*3	Person	67	53	80	75	110	–
Post childcare leave reinstatement allowance			16	30	28	22	35	–
Daycare allowance			7	15	18	16	15	–
Care worker allowance			0	0	2	0	1	–

As of the end of each fiscal year (March 31)

*3 Including seconded employees

Union Data

		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business
Workers' union	Number of members	JSR Corporation*3	Person	2,588	2,629	2,709	2,799	2,746	–
	% of union members*15		%	77.7	77.9	78.5	79.7	80.0	–
	Number of members	JSR Group	Person	3,545	3,588	3,739	3,766	3,775	–
	% of union members*15		%	49.2	41.0	41.3	40.1	38.9	–

*3 Including seconded employees

*15 Percentage of union members among full-time employees including managers

Health data

		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business
% of employees with abnormalities in physical examinations		JSR Corporation*16	%	–	–	–	26.4	24.3	–
% of employees who scored as highly stressed on the stress check			%	7.5	7.3	8.3	8.2	8.9	–
Monthly average number of employees who work more than 45 hours of overtime a month (long working hours)		JSR Corporation*3	Person	92.9	90.1	91.7	51.3	64.7	–

As of the end of each fiscal year (March 31)

*3 Including seconded employees

*16 Excluding seconded employees

◆ Governance Data

Corporate Governance

			Boundary	Unit	FY2017	FY2018	FY2019 *1	FY2020	FY2021		
Board of Directors	Inside Directors (executive directors)	Male	JSR Corporation	Person	4	4	5	5	4		
		Female			0	0	0	1	1		
		Total			4	4	5	6	5		
	Independent Outside Directors (non-executive directors)	Male			3	3	3	3	4		
		Female			0	0	0	0	0		
		Total			3	3	3	3	4		
	Total	Male			7	7	8	8	8		
		Female			0	0	0	1	1		
		Total			7	7	8	9	9		
	% Independent Outsider						43	43	38	33	33
	% Female Director						0	0	0	11	11
	% Non-Japanese Directors						0	0	11	11	22
	Term of Office						1	1	1	1	1
	Maximum age limit for directors						Years old	None	None	None	None
Number of BOD meetings held in a fiscal year				Times	17	17	17	17	18		

*1 Mr. Manabu Miyasaka, a former outside director (term of office from June 18, 2019 to September 5, 2019), is excluded from this table.

			Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021		
Audit & Supervisory Board (formerly known as Statutory Auditors Board)	Insider	Male	JSR Corporation	Person	1	1	1	1	1		
		Female			0	0	0	0	0		
		Total			1	1	1	1	1		
	Independent Outsider	Male			1	1	1	1	0		
		Female			1	1	1	1	2		
		Total			2	2	2	2	2		
	Total	Male			2	2	2	2	1		
		Female			1	1	1	1	2		
		Total			3	3	3	3	3		
	% Independent Outsider						67	67	67	67	67
	% Female Audit & Supervisory Board Member						33	33	33	33	67
Term of office				Year/ Term	4	4	4	4	4		
Number of Audit & Supervisory Board meetings held in a year				Times	19	18	18	18	18		

◆ Governance Data

		Boundary	Unit	FY2017	FY2018	FY2019 *1	FY2020	FY2021
Nomination Advisory Committee	Chairman	JSR Corporation	–	Independent Outside Directors				
	Committee Member		Independent Outside Directors	3	3	3	3	4
			Inside Director	2	2	1	2	2
			Total	5	5	4	5	6
	Number of meetings held in a year		Times	3	3	3	3	4
Remuneration Advisory Committee	Chairman	JSR Corporation	–	Independent Outside Directors				
	Committee Member		Independent Outside Directors	3	3	3	3	4
			Inside Director	1	1	1	2	2
			Total	4	4	4	5	6
	Number of meetings held in a year		Times	4	4	4	7	7

*1 Mr. Manabu Miyasaka, a former outside director (term of office from June 18, 2019 to September 5, 2019), is excluded from this table.

		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Number of officers (Number of concurrent directors)	Male	JSR Corporation	Person	24 (3)	24 (3)	25 (2)	24 (4)	24 (4)
	Female			1 (0)	1 (0)	1 (0)	2 (1)	2 (1)
	Total			25 (3)	25 (3)	26 (2)	26 (5)	26 (5)
% Non-Japanese officers		JSR Corporation	%	4	8	8	8	12

◆ Governance Data

Remuneration for Directors and Audit & Supervisory Board Members										
			Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	
Remuneration for Directors	Inside Directors	Basic Remuneration (Fixed remuneration)	JSR Corporation	Million JPY	183	186	264	246	242	
		Annual Bonuses (Short term performance linked remuneration)			69	50	64	182	182	
		Medium-term performance-based bonus			–	25	48	(abolition)	(abolition)	
		Performance Share Unit			–	–	–	–	120	
		Restricted Stock Shares (Remuneration in share stock)			28	37	100	124	232	
		Deep Discounted Stock Option (Remuneration in share stock)			9	–	–	–	–	
		Sub-total			289	298	476	552	776	
	Outside Directors	Basic Remuneration (Fixed remuneration)			40	42	47	43	43	
		Sub-total			40	42	47	43	43	
	Total				329	340	523	595	819	
	Remuneration for Audit & Supervisory Board members	Inside Audit & Supervisory Board Member			Basic Remuneration (Fixed remuneration)	28	29	28	28	28
					Sub-total	28	29	28	28	28
Outside Audit & Supervisory Board Members		Basic Remuneration (Fixed remuneration)	17	20	22	22	22			
		Sub-total	17	20	22	22	22			
Total		45	49	50	50	50				

◆ Governance Data

List of Remuneration for individual Directors paid in FY2021 *2

Name	Position	Name of Company	Unit	Description of consolidated remuneration					Total
				Basic Remuneration	Restricted Stock shares	Medium-term performance-based bonus	Performance Share Unit	Restricted Stock Shares (Non-monetary reward)	
Eric Johnson	Director	JSR Corporation	Million JPY	60	63	–	77	173	575
	President	JSR North America Holdings, Inc.	Million JPY	61	63	–	77	–	
Nobuo Kawahashi	Director	JSR Corporation	Million JPY	80	30	–	24	29	163

*2 the above list is limited to Directors whose annual remuneration

Accounting Auditors

		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021
Amount of remuneration for Accounting Auditors	Remuneration for services relating to auditing or certifying the financial documents	JSR Corporation and its consolidated subsidiaries	Million JPY	67	87	116	112	115
	Remuneration for non-auditing services			24	0	0	2	0
Amount of remuneration for Accounting Auditors	Remuneration for services relating to auditing or certifying the financial documents	JSR Corporation and its consolidated subsidiaries	Million JPY	–	39	72	96	118
	Remuneration for non-auditing services			–	42	28	42	23

◆ Governance Data

Activities of Directors and Audit & Supervisory Board Members in FY2021

Name, Gender, Nationality	Title*	Age*	Tenure*	Activities	Attendance to the meetings in fiscal year ending in March 2021
Eric Johnson, Male, U.S.A.	Representative Director and CEO	61	3 years	Since assuming the position of Representative Director and CEO in 2019, Eric Johnson has driven the expansion of our life science business as the officer in charge of supervising our North American business. In addition, he utilizes his global management experience to lead the management of the Group and has strived to realize a company which is trusted by all our stakeholders and which gives them satisfaction. He utilized his extensive work experience and insights in making important decisions and overseeing the execution of duties by the Board of Directors to contribute to a continuous improvement in the corporate value of the Group.	BOD 18 / 18 100%
					Nomination Advisory Committee 4 / 4 100%
					Remuneration Advisory Committee 7 / 7 100%
Nobuo Kawahashi, Male, Japan	Representative Director and President, COO	65	6 years	Since assuming the position of Representative Director and President, COO in 2019, Nobuo Kawahashi has assisted the CEO to grow our digital solutions business and life science business as core businesses based on our management policies and strategies. He utilized his extensive work experience and insights in making important decisions and overseeing the execution of duties by the Board of Directors to contribute to a continuous improvement in the corporate value of the Group.	BOD 18 / 18 100%
					Nomination Advisory Committee 4 / 4 100%
					Remuneration Advisory Committee 7 / 7 100%
Kouichi Kawahashi, Male, Japan	Director and Executive Managing Officer	65	6 years	Kouichi Kawahashi contributes to improving the corporate value of the Group by being in charge of production and technologies, quality assurance, environmental safety, human resources development, and diversity promotion. He utilized his extensive work experience and insights in making important decisions and overseeing the execution of duties by the Board of Directors to contribute to a continuous improvement in the corporate value of the Group.	BOD 18 / 18 100%
Hideki Miyazaki, Male, Japan	Director and Managing Officer	64	4 years	Hideki Miyazaki has contributed to improving the corporate value of the Group by being in charge of accounting, financial affairs, public relations, systems strategies, cyber security supervision and operational process innovation utilizing his extensive experience and wide-ranging insights relating to financial affairs in Japan and overseas over a long period of time. He utilized his extensive work experience and insights in making important decisions and overseeing the execution of duties by the Board of Directors to contribute to a continuous improvement in the corporate value of the Group.	BOD 18 / 18 100%
Mika Nakayama, Female, Japan	Director and Senior Managing Officer	61	2 years	Mika Nakayama contributes to improving the corporate value of the Group as the officer in charge of sustainability promotion. She utilized her extensive work experience and insights in making important decisions and overseeing the execution of duties by the Board of Directors to contribute to a continuous improvement in the corporate value of the Group.	BOD 18 / 18 100%

Name, Gender, Nationality	Title*	Age*	Tenure*	Activities	Attendance to the meetings in fiscal year ending in March 2021
Yuzuru Matsuda, Male, Japan	Independent Outside Director	73	7 years	Yuzuru Matsuda attended all 18 Board of Directors meetings held in FY2021. Utilizing his extensive experience in management of a multinational company engaged in the fields of ethical pharmaceuticals and biochemicals along with his outside perspectives independent of the Company, he shared his views as necessary during deliberations of agenda items and contributed to the continuous improvement of corporate value by ensuring the rationality of management's decision making and the transparency and soundness of management. Matsuda chairs the Remuneration Advisory Committee and made every effort to ensure the rationality and transparency of the officer remuneration system. Also, Matsuda assisted in the review of the succession plan for the Group's management structure as chairperson of the Nomination Advisory Committee from an objective and long-term perspective.	BOD 18 / 18 100%
					Nomination Advisory Committee 4 / 4 100%
					Remuneration Advisory Committee 7 / 7 100%
Shiro Sugata, Male, Japan	Independent Outside Director	72	6 years	Shiro Sugata attended all 18 Board of Directors meetings held in FY2021. Utilizing his extensive experience in activities in the financial world and in management of a multinational company engaged in the fields of optical products and industrial machinery coupled with his outside perspectives independent of the Company, he shared his views as necessary during deliberations of agenda items and contributed to the continuous improvement of corporate value by ensuring the rationality of management's decision making and the transparency and soundness of management. Sugata serves on the Remuneration Advisory Committee and made every effort to ensure the rationality and transparency of the officer remuneration system. Also, Sugata assisted in the review of the succession plan for the Group's management structure as member of the Nomination Advisory Committee from an objective and long-term perspective.	BOD 18 / 18 100%
					Nomination Advisory Committee 4 / 4 100%
					Remuneration Advisory Committee 7 / 7 100%
Tadayuki Seki, Male, Japan	Independent Outside Director	72	5 years	Tadayuki Seki attended all 18 Board of Directors meetings held in FY2021. Utilizing his extensive experience in finance and accounting as CFO and in management positions at a multinational trading company coupled with his outside perspectives independent of the Company, he shared his views as necessary during deliberations of agenda items and contributed to the continuous improvement of corporate value by ensuring the rationality of management's decision making and the transparency and soundness of management. Seki serves on the Remuneration Advisory Committee and made every effort to ensure the rationality and transparency of the officer remuneration system. Also, Seki assisted in the review of the succession plan for the Group's management structure as member of the Nomination Advisory Committee from an objective and long-term perspective.	BOD 18 / 18 100%
					Nomination Advisory Committee 4 / 4 100%
					Remuneration Advisory Committee 7 / 7 100%

Name, Gender, Nationality	Title*	Age*	Tenure*	Activities	Attendance to the meetings in fiscal year ending in March 2021
David Robert Hale, Male, U.S.A.	Independent Outside Director	37	1 year	David Robert Hale attended 13 of 13 Board of Directors meetings held after his appointment. He utilized his extensive experience in global business administration as well as business transformation and expansion as a partner at an investment firm engaged in long-term investments and as director of investee companies, coupled with his international and outside perspectives, in important decision making by the Board of Directors, supervision of execution of duties, and strengthening of corporate governance. As a result, he contributed to the continuous improvement of corporate value by ensuring the rationality of management's decision making and the transparency and soundness of management. Hale serves on the Remuneration Advisory Committee and made every effort to ensure the rationality and transparency of the officer remuneration system. Also, Hale assisted in the review of the succession plan for the Group's management structure as member of the Nomination Advisory Committee from an objective and long-term perspective.	BOD 13 / 13 100%
					Nomination Advisory Committee 3 / 3 100%
					Remuneration Advisory Committee 4 / 4 100%
Tomoaki Iwabuchi, Male, Japan	Full-time Audit & Supervisory Board Member	64	2 years	Tomoaki Iwabuchi utilizes his extensive experience, insights and expertise in the Company as a full-time Audit & Supervisory Board member. He also shares his experience, insights and expertise with other outside Audit & Supervisory Board members and utilizes it in overseeing the decision-making and execution of business by directors to contribute to ensuring the rationality of management decisions and the transparency and soundness of management by the Company.	BOD 18 / 18 100%
					Audit & Supervisory Board 18 / 18 100%
Hisako Kato, Female, Japan	Independent Outside Audit & Supervisory Board Member	73	8 years	Hisako Kato attended all 18 Board of Directors meetings and all 18 Audit & Supervisory Board meetings held in FY2021. She utilized her wide ranging specialist knowledge and extensive experience in finance and accounting as Certified Public Accountant and licensed tax accountant coupled with her outside perspectives independent of the Company in audits, and she shared her views as necessary during deliberations of agenda items at Board of Directors meetings and contributed to ensuring the rationality of management's decision making and the transparency and soundness of management.	BOD 18 / 18 100%
					Audit & Supervisory Board 18 / 18 100%
Junko Kai, Female, Japan	Independent Outside Audit & Supervisory Board Member	54	1 year	Junko Kai attended 13 of 13 Board of Directors meetings and 13 of 13 Audit & Supervisory Board meetings held after her appointment. She utilized her wide ranging specialist knowledge and extensive experience in law as an attorney-at-law coupled with her outside perspectives independent of the Company in audits, and she shared her views as necessary during deliberations of agenda items at Board of Directors meetings and contributed to ensuring the rationality of management's decision making and the transparency and soundness of management.	BOD 13 / 13 100%
					Audit & Supervisory Board 13 / 13 100%

*1 As of June 17, 2022 (at the close of the 77th AGM of the Company)

◆ Governance Data

Compliance									
		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business
Amount of corporate income tax paid	JSR Corporation and consolidated subsidiary in Japan	Same as the left	Million JPY	12,565	9,547	9,435	3,266	7,452	–
	Consolidated Subsidiaries in other countries			2,204	1,434	3,338	2,127	4,254	–
Political Donations/contribution		JSR Corporation		0	0	0	0	0	–

		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business
Number of Sustainability Promotion Committee (Former CSR Committee) meetings held in a year		JSR Corporation	Times	7	4	5	4	3	–
Violation of each country's anti-corruption laws and international standards	Number of violations	JSR Group	Times	0	0	0	0	0	–
	Penalty	JSR Group	JPY	0	0	0	0	0	–
Number of times the JSR Group hotline was used		JSR Corporation	Number	2	6	3	9	8	–
		Group companies		4	10	7	17	7	–
		Unknown		0	1	0	0	0	–
Number of times the supplier hotline was used		JSR Corporation	Number	0	0	0	0	0	–
		Group companies		0	0	0	0	1	–

Research and Development (R&D)										
		Boundary	Unit	FY2017	FY2018	FY2019	FY2020	FY2021	Ex elastomer business	
R&D expenses		JSR Group	Billion JPY	203	249	254	246	241	–	
		JSR Corporation	Billion JPY	165	191	205	193	204	–	
Number of researchers		JSR Corporation	Person	680	727	747	766	666	–	
Number of patents held		Japan	JSR Corporation	Number	3,282	3,258	2,960	2,695	2,570	2,278
		Other than Japan			3,812	3,793	3,710	3,446	3,395	2,806
		Total			7,094	7,051	6,670	6,141	5,965	5,084

JSR Group Companies (As of 31st May, 2022)

52 consolidated companies, 8 non-consolidated companies, 7 affiliates accounted for by the equity method, and 22 scope of RC reporting

(Ref.) After transfer of elastomer business: 41 consolidated companies, 2 non-consolidated subsidiaries, 4 equity-method affiliates, 15 RC reporting companies

* RC = Responsible Care®

Country	Companies' name	Business segment					Consolidated companies	Non-consolidated companies	Equity-method affiliates	RC reporting
		Digital Solutions	Life Sciences	Plastics	Elastomer ^{※1}	Others				
Japan	JSR Corporation	●	●	●	●	●				※
	JSR Micro Kyushu Co., Ltd.	●					●			※
	D-MEC LTD.	●					●			
	Emulsion Technology, Co., Ltd.	●				●	●			※
	JSR ARTON Manufacturing Co., Ltd. ^{※2}	●					●			
	JSR Life Sciences Corporation		●				●			※
	MEDICAL & BIOLOGICAL LABORATORIES CO., LTD.		●				●			※
	G&G SCIENCE CO., LTD.		●				●			
	LEXI Co., Ltd.		●				●			
	Techno-UMG Co., Ltd.			●			●			※
	JAPAN COLORING CO., LTD.			●			●			※
	UBE JYUSHIKAKOU, LTD			●			●			※
	ELASTOMIX CO., LTD. ^{※1}				●		●			※
	Japan Butyl Co., Ltd. ^{※1}				●				◆	
	KRATON JSR ELASTOMERS K. K. ^{※1} (cr:KRATON ENEOS ELASTOMERS K. K.)				●				◆	
	JSR Trading Co., Ltd. ^{※1} (cr:ENEOS Materials Trading Co., Ltd.)				●	●	●			
	Goko Trading Co., Ltd. ^{※1}				●	●	●			
	Rapithela Corporation					●		●		
	Musashi Energy Solutions Co., Ltd.					●			◆	
	JSR Active Innovation Fund, LLC,	-				●	●			
JEY-TRANS CO., LTD.					●			◆		
JSR Logistics & Customer Center Co., Ltd.					●	●			※	
JSR Business Services Co., Ltd.					●	●				
JN System Partners Co., Ltd.					●			◆		

※1 We transferred our elastomer business and the stock in our subsidiaries and affiliated companies involved in that business to ENEOS Corporation on April 1, 2022.

※2 We established JSR ARTON Manufacturing Co., Ltd. to transfer the functions and organizations relating to ARTON manufacturing in the former JSR Chiba Plant due to the spinoff of our elastomer business on April 1, 2022. We completed the transfer of the functions and organizations on March 31, 2022.

Korea, Taiwan, China

Country	Companies' name	Business segment					Consolidated companies	Non-consolidated companies	Equity-method affiliates	RC reporting
		Digital Solutions	Life Sciences	Plastics	Elastomer ^{※1}	Others				
Korea	JSR Electronic Materials Korea Co., Ltd.	●							◆	
	JSR Micro Korea Co., Ltd.	●					●			※
	JSR Elastomer Korea Co., Ltd. ^{※1} (cr:ENEOS Materials Korea Co., Ltd.)				●			●		
Taiwan	JSR Electronic Materials Taiwan Co., Ltd	●					●			
	JSR Micro Taiwan Co., Ltd. ^{※3}	●					●			
China	JSR (Shanghai) Co., Ltd.	●	●		●		●			
	JSR Micro (Changshu) Co., Ltd.	●					●			※
	MBL Beijing Biotech Co., Ltd.		●				●			
	MBL Hangzhou Biotech Co., Ltd.		●				●			
	MBL Shenzhen Biotech Co., Ltd		●				●			
	Techno-UMG Guangzhou Co., Ltd.			●			●			
	Techno-UMG Hong Kong Co., Ltd.			●			●			
	Techno-UMG Shanghai Co., Ltd.			●			●			
	Tianjin Kuo Cheng Rubber Industry Co., Ltd. ^{※1}				●				◆	
	ELASTOMIX(FOSHAN) CO., LTD. ^{※1}				●		●			※
	JSR Trading (Shanghai) Co., Ltd. ^{※1} (cr:ENEOS Materials Trading (Shanghai) Co., Ltd.)				●	●	●			

※ 1 We transferred our elastomer business and the stock in our subsidiaries and affiliated companies involved in that business to ENEOS Corporation on April 1, 2022.

※ 3 JSR Micro Taiwan Co., Ltd. closed its plant in September 2021 and became a sales activity and technical service company for local customers.

Southeast Asia, South Asia

Country	Companies' name	Business segment					Consolidated companies	Non-consolidated companies	Equity-method affiliates	RC reporting
		Digital Solutions	Life Sciences	Plastics	Elastomer ^{※1}	Others				
Indonesia	PT.ELASTOMIX INDONESIA ^{※1}				●		●			※
Vietnam	JSR Trading Vietnam Co., Ltd. ^{※1} (cr:ENEOS Materials Trading Vietnam Co., Ltd.)					●		●		
Thailand	Techno-UMG Asia Co., Ltd.			●			●			
	JSR BST Elastomer Co., Ltd. ^{※1} (cr:BST ENEOS Elastomer Co., Ltd.)				●		●			※
	ELASTOMIX (THAILAND) CO., LTD. ^{※1}				●		●			※
	JSR Trading Bangkok Co., Ltd. ^{※1} (cr:ENEOS Materials Trading Vietnam Co., Ltd.)				●	●	●			
Singapore	JSR Electronic Materials Singapore Pte. Ltd.	●						●		
India	JSR Elastomer India Private Limit ^{※1} (cr:ENEOS Materials India Private Limited)				●			●		

※ 1 We transferred our elastomer business and the stock in our subsidiaries and affiliated companies involved in that business to ENEOS Corporation on April 1, 2022.

Europe

Country	Companies' name	Business segment					Consolidated companies	Non-consolidated companies	Equity-method affiliated	RC reporting
		Digital Solutions	Life Sciences	Plastics	Elastomer ^{※1}	Others				
Hungary	JSR MOL Synthetic Rubber, Ltd.※1 (cr:ENEOS MOL Synthetic Rubber Ltd.)				●		●			※
Germany	Techno-UMG Europe GmbH			●			●			
	JSR Elastomer Europe GmbH※1 (cr:ENEOS Materials Europe GmbH)				●			●		
Switzerland	KBI Biopharma SA		●				●			
	Selexis SA		●				●			
Belgian	JSR Micro N.V.	●	●				●			※
	EUV Resist Manufacturing & Qualification Center N.V.	●					●			※
	KBI Biopharma BVBA		●				●			

※1 We transferred our elastomer business and the stock in our subsidiaries and affiliated companies involved in that business to ENEOS Corporation on April 1, 2022.

North and Central America

Country	Companies' name	Business segment					Consolidated companies	Non-consolidated companies	Equity-method affiliated	RC reporting
		Digital Solutions	Life Sciences	Plastics	Elastomer ^{※1}	Others				
USA	JSR North America Holdings, Inc.					●	●			
	JSR Micro, Inc.	●					●			※
	Inpria Corporation	●					●			
	JSR Life Sciences, LLC		●				●			
	MBL International Corporation		●				●			
	KBI Biopharma, Inc.		●				●			※
	KBI Biopharma Boulder, LLC		●				●			
	Crown Bioscience International		●				●			
	Techno-UMG America, Inc			●			●			
	JSR Elastomer America, Inc.※1 (現 ENEOS Materials America, Inc.)				●		●			
Mexico	ELASTOMIX MEXICO, S.A. de C.V.※1				●			●		※
	JSRT Mexico S.A. de C.V.※1 (cr:ENEOS Materials Trading Mexico S.A. de C.V.)					●		●		

※1 We transferred our elastomer business and the stock in our subsidiaries and affiliated companies involved in that business to ENEOS Corporation on April 1, 2022.