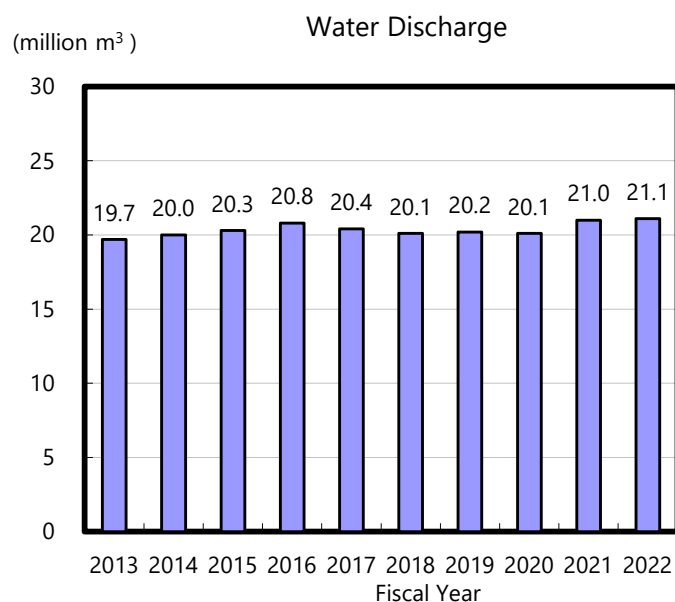
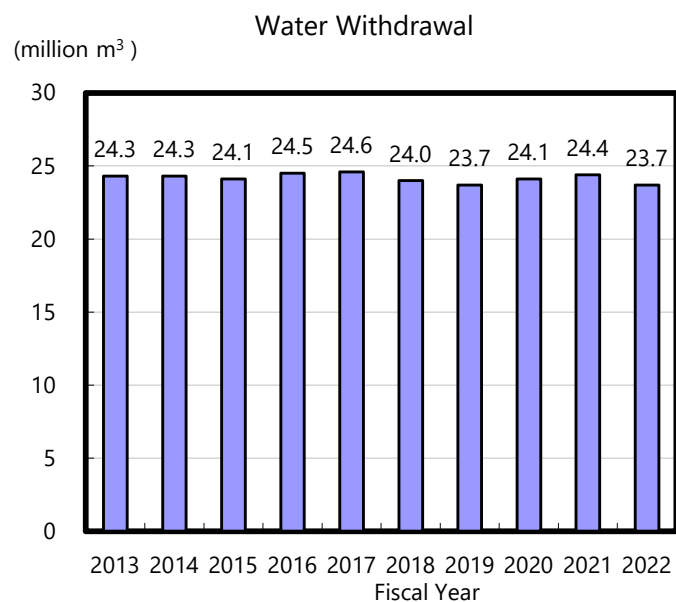
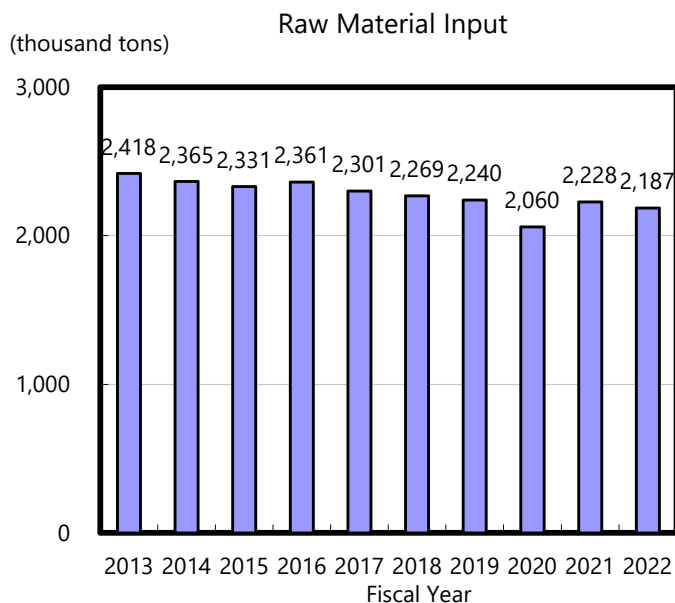
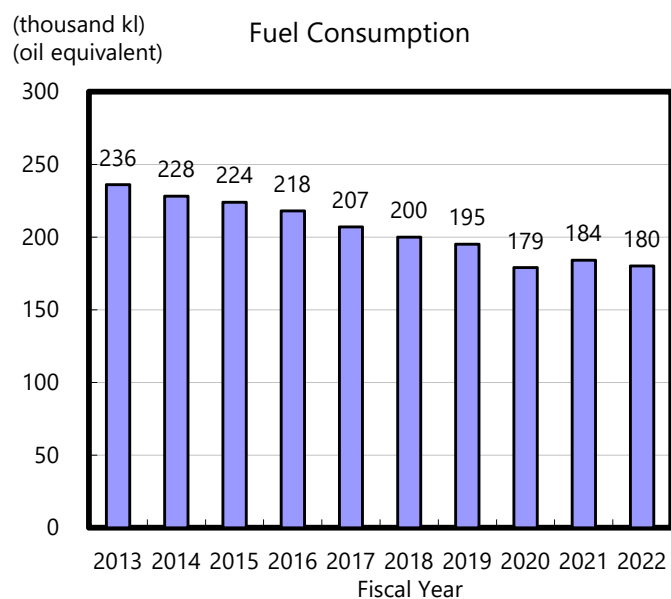
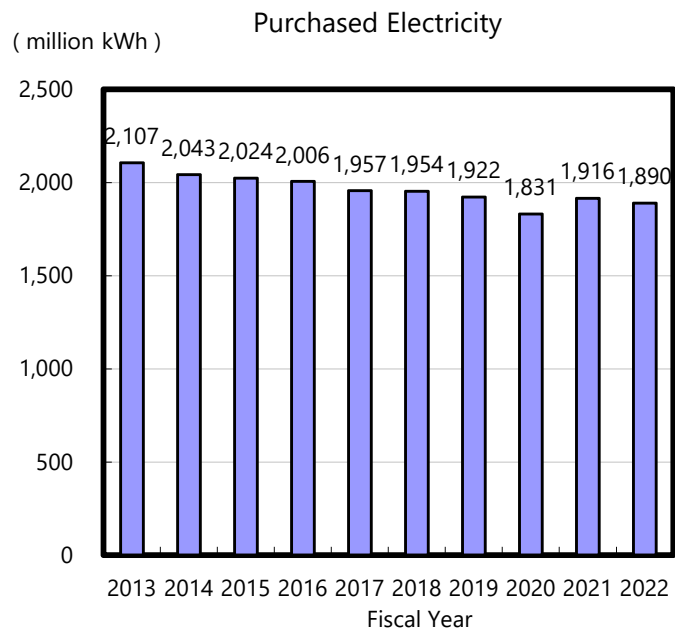
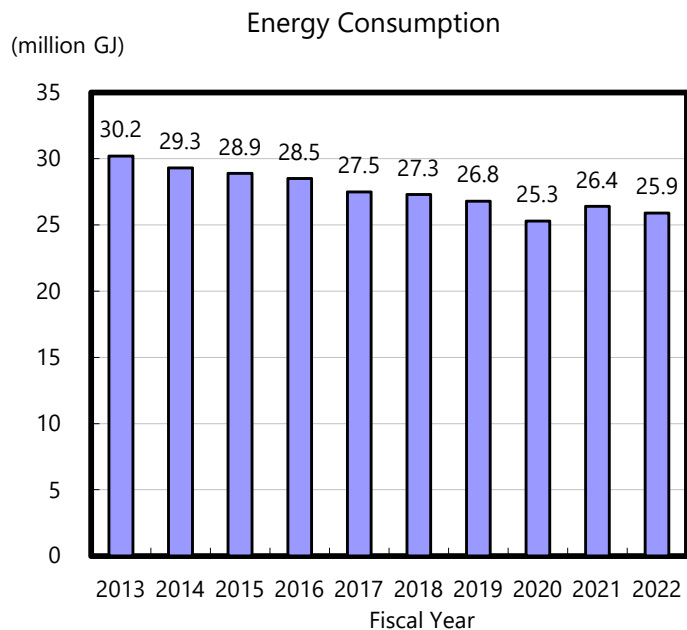


Environmental Performance Data of the Toyo Seikan Group

1. Major Indicators of Environmental Performance
2. Addressing Climate Change
3. Reducing Waste
4. Management of Chemical Substances
5. Use of Water Resources
6. Preventing Air Pollution
7. Material Flows by Operating Company
8. Lawsuits and financial penalties related to environmental issues
9. Other Information

Scope of Data Collection
Toyo Seikan Group Holdings and its consolidated subsidiaries. There are several tables and graphs with different data scopes, which are indicated at the relevant graphs and tables. Those marked with "<Domestic>" only include domestic consolidated companies.

1. Major Indicators of Environmental Performance



2. Addressing Climate Change

GHG emissions from operations (scope 1 & 2) ⁽¹⁾

Unit: thousand tons CO₂

		Fiscal Year									
Region		2,013	2,014	2,015	2,016	2,017	2,018	2,019	2,020	2,021	2,022
Domestic	Scope 1	491	474	466	449	424	404	398	367	375	366
	Scope 2	1,085	1,039	996	961	938	890	821	740	766	619
	Total	1,576	1,513	1,462	1,410	1,362	1,294	1,219	1,107	1,141	985
Southeast Asia	Scope 1	32	35	38	37	37	38	31	27	27	28
	Scope 2	101	114	113	113	110	112	104	103	108	107
	Total	133	149	152	149	147	150	136	130	135	135
China	Scope 1	7	7	5	5	5	6	5	5	7	6
	Scope 2	48	44	38	38	34	28	31	35	41	39
	Total	55	50	42	43	39	34	36	40	48	45
Others	Scope 1	1	1	1	0	1	1	2	2	2	1
	Scope 2	4	4	5	5	5	5	6	7	8	8
	Total	4	5	6	6	5	6	8	8	11	9
Total	Scope 1	532	516	509	491	467	449	436	401	411	401
	Scope 2	1,237	1,201	1,152	1,117	1,087	1,035	962	885	922	774
	Total	1,769	1,717	1,661	1,608	1,554	1,483	1,398	1,285	1,334	1,175

Notes:

1. Several figures for past periods have been corrected from the previous year's report due to duplicated data collection at overseas facilities.

GHG emissions from supply chain (scope 3) ⁽¹⁾

Unit: Thousand tons CO₂

Category		FY2019	FY2020	FY2021	FY2022
Category 1	Purchased goods and services	4,442	4,059	4,572	4,499
Category 2	Capital goods	262	308	223	293
Category 3	Fuel- and energy-related activities (not included in scope 1 or scope 2)	233	220	235	233
Category 4	Upstream transportation and distribution	292	278	289	313
Category 5	Waste generated in operations	18	29	24	18
Category 6	Business travel	5	3	3	5
Category 7	Employee commuting	13	13	12	14
Category 8	Upstream leased assets	3	2	2	0
Category 9	Downstream transportation and distribution	3	2	2	3
Category 10	Processing of sold products	158	156	178	181
Category 11	Use of sold products	275	293	528	582
Category 12	End-of-life treatment of sold products	496	508	514	538
Category 13	Downstream leased assets	12	11	11	11
Category 14	Franchises	-	-	-	-
Category 15	Investments	90	88	100	85
Total		6,301	5,971	6,692	6,774

3. Reducing Waste

(1) Amount of waste generated and change in status of recycling

Unit: ton

	Fiscal year									
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Total amount of waste (incl. valuable materials)	283,714	284,205	278,327	281,745	274,535	255,835	259,837	242,200	260,266	243,444
Landfilled (incl. simple incineration)	15,151	15,459	15,127	13,195	10,414	9,234	7,170	6,772	9,071	7,911
Recycling rate	91.1%	91.0%	91.0%	92.4%	93.1%	94.0%	94.6%	94.1%	92.8%	94.6%

<Domestic>

Unit: ton

	Fiscal year									
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Total amount of waste (incl. valuable materials)	266,652	265,446	258,947	264,302	256,497	241,712	244,381	227,001	242,432	228,309
Material recycling (incl. reuse)	248,207	247,067	239,540	244,884	239,782	225,861	231,769	212,590	226,090	215,364
Thermal recycling	5,175	5,593	6,549	7,258	7,746	8,131	6,607	8,634	8,262	6,523
Landfilled (incl. simple incineration)	13,270	12,787	12,858	12,160	8,969	7,720	6,005	5,777	8,081	6,421
Recycling rate	95.0%	95.2%	95.0%	95.4%	96.5%	96.8%	97.5%	97.5%	96.7%	97.2%

(2) Generation of hazardous waste (waste acid, alkali, oil, paints, inks and solvent) and change in status of recycling

< Status at Toyo Seikan Co., Ltd. >

Unit: ton

	Fiscal year									
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Amount of waste	1,382	1,459	1,325	1,300	987	991	1,377	1,250	1,472	1,478
Recycled	1,382	1,459	1,325	1,300	987	991	1,377	1,250	1,472	1,478
Landfilled	0	0	0	0	0	0	0	0	0	0

4. Management of Chemical Substances

(1) Release and transfer of chemical substances under Japan's Pollutant Release and Transfer Register (PRTR) Law

<Domestic>

Unit: ton

	Fiscal year									
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Released/transferred amount of chemicals subject to PRTR	525	554	545	504	502	513	477	433	432	437

(2) Emissions of volatile organic compounds (VOC)

< Status at Toyo Seikan Co., Ltd. >

Unit: ton

	Fiscal year									
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
VOC emissions	2,224	2,278	2,234	2,287	2,518	2,558	2,667	2,678	2,767	2,847

5. Use of Water Resources

(1) Water withdrawal

		Unit: thousand m ³									
		Fiscal year									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Domestic	Clean water	7,469	8,379	8,249	8,361	8,425	8,065	7,810	7,813	8,181	7,641
	Industrial water	11,451	10,175	10,591	10,520	10,520	10,415	10,412	10,554	10,399	10,108
	Groundwater	2,137	2,183	1,970	1,924	2,090	2,015	1,975	1,802	1,854	2,130
	Recycled water	23	29	29	29	31	32	32	13	11	13
	Rainwater	9	8	8	8	8	8	9	8	9	7
	Subtotal	21,090	20,773	20,847	20,843	21,074	20,535	20,237	20,190	20,454	19,899
Overseas	Clean water	3,220	3,524	3,278	3,581	3,478	3,360	3,391	3,874	3,928	3,743
	Groundwater	0	0	0	121	87	56	85	51	18	10
	Subtotal	3,220	3,524	3,278	3,702	3,565	3,416	3,477	3,925	3,947	3,753
Total water withdrawal		24,309	24,297	24,124	24,544	24,639	23,951	23,714	24,115	24,401	23,652

(2) Water discharge

		Unit: thousand m ³									
		Fiscal year									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Domestic	Public water bodies (Seas)	13,572	14,186	14,744	14,872	14,717	14,335	13,956	13,901	14,519	13,643
	Public water bodies (Rivers)	3,221	2,955	2,794	2,276	2,412	2,329	2,830	2,753	2,775	3,086
	Sewage systems	776	726	649	1,380	1,265	1,345	1,320	1,245	1,226	1,230
	Domestic total	17,569	17,867	18,187	18,528	18,394	18,010	18,106	17,898	18,520	17,959
Overseas: Public water bodies (Rivers)		2,126	2,177	2,108	2,224	1,988	2,050	2,128	2,211	2,436	3,104
Total water discharge		19,694	20,043	20,296	20,752	20,382	20,060	20,234	20,109	20,956	21,063

(3) Water-related risk assessment

Risk assessment using Aqueduct, a global water risk assessment tool advocated by the World Resources Institute (WRI), has been carried out by several group companies, all of which obtained the "medium to high risk (2-3)" rating. In addition to the Aqueduct assessment, we have conducted a more accurate survey on water risks using the latest topographical and meteorological data at 77 major facilities of domestic group companies with the cooperation of external specialists in water risk assessment. Based on the survey results, we will calculate individual management scores of the facilities and provide feedback to support their continued efforts, thereby reducing water-related risks.

6. Preventing Air Pollution

Emissions of air pollutant

<Domestic>

		Unit: ton									
		Fiscal year									
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
NOx		383	400	404	394	366	354	340	304	332	293
SOx		631	805	857	965	722	680	710	666	686	677

7. Material Flows by Operating Company

Input/output data of major group companies

	INPUT(Usage)					OUTPUT						
	Materials (thou. tons)		Energy		Water withdrawal (thou. m³)	Production (thou. tons)		GHG emissions (thou. tons)	Waste			
			Electricity (mil. kWh)	Fuel (thou. kl of oil equivalent)					Waste (ton)	Recycled (ton)	Landfilled (ton)	Recycling rate
Toyo Seikan	Metals	212	707	33	2,454	Metal products	176	307	9,271	9,270	1	99.9%
	Plastics	245				Plastic products	245					
	Other materials	23										
Toyo Kohan	Metals	426	262	24	11,684	Metal products	390	172	7,815	2,791	5,024	35.7%
	Plastics	9				Plastic products	4					
Tokai Kogyo	Plastics	19	95	2	167	Plastic products	11	42	5,197	5,165	32	99.4%
	Paper	62				Paper products	54					
Nippon Closures	Metals	12	133	3	244	Metal products	9	65	598	553	45	92.5%
	Plastics	62				Plastic products	58					
Toyo Glass	Glass	322	75	63	374	Glass products	301	184	887	745	142	84.0%
Mebius Packaging	Plastics	47	134	0.2	206	Plastic products	65	42	506	496	10	98.0%
Toyo Aerosol Industry	Other materials	63	18	2	269	Aerosol products/ filled products (mil. units)	249	11	1,483	1,483	0	100.0%
TOMATEC	Other materials	14	8	3	360	Other products	13	6	1,000	891	109	89.1%

8. Lawsuits and financial penalties related to environmental issues

There have been no lawsuits against, or fines imposed on, the Toyo Seikan Group with respect to environmental regulations during fiscal 2022.

9. Other Information

■ Example of our initiatives to address environmental issues in the supply chain

<Addressing Marine Plastic Pollution>

-Engagement through the Clean Ocean Material Alliance-

Marine plastic pollution is one of the latest global issues. To reduce the pollution, the public and private sectors need to cooperate in promoting more sustainable use of plastic products and developing and introducing alternative materials. In light of such circumstances, in January 2019, the Clean Ocean Material Alliance (CLOMA) was established with a wide range of business operators. As of April 2023, it consists of 486 companies and organizations from various industries in the supply chain. Toyo Seikan Group Holdings has joined the alliance as a managing partner since the preparation phase and has been working as a key member of a subcommittee of CLOMA to share information and enhance the network with partners from across industries.