

# Environmental Performance Data of the Toyo Seikan Group

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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

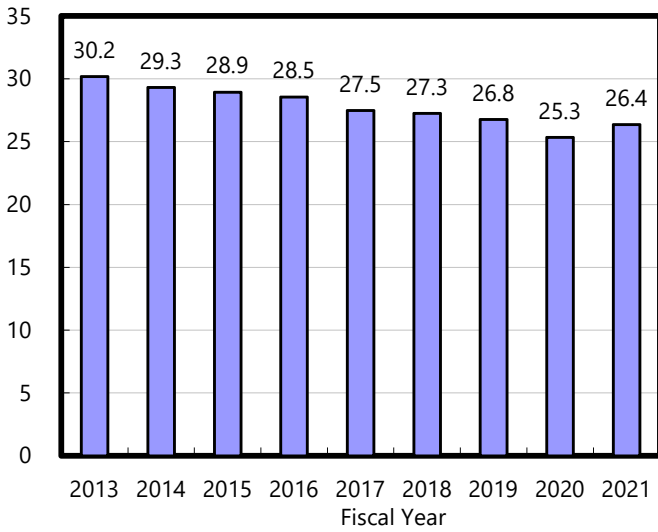
Toyo Seikan Group Holdings and its consolidated subsidiaries.

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

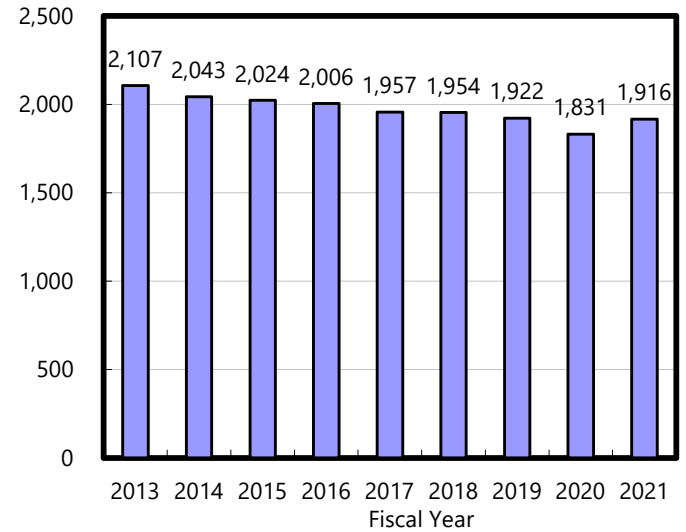
### Energy Consumption

(million GJ)



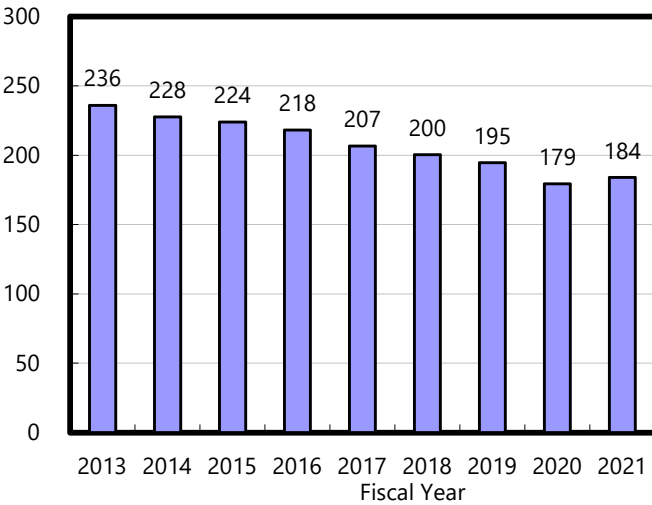
### Purchased Electricity

(million kWh)



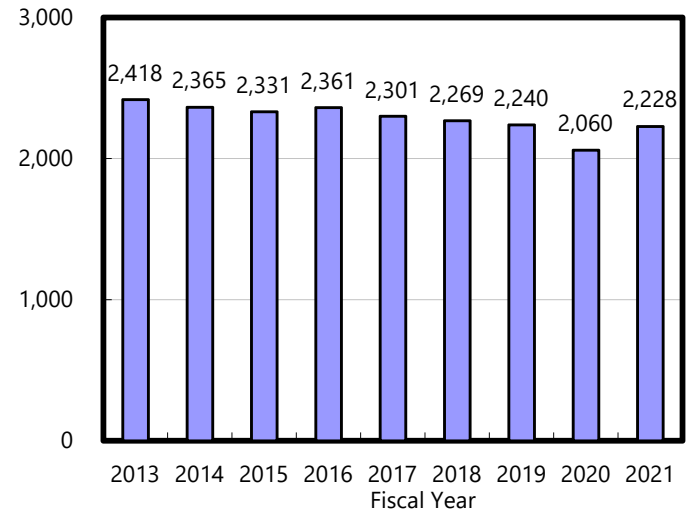
### Fuel Consumption

(thousand kl)  
(oil equivalent)



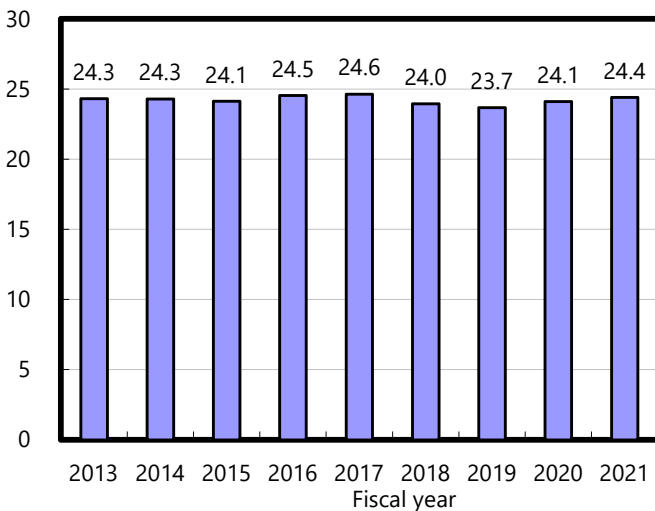
### Raw Material Input <Domestic>

(thousand tons)



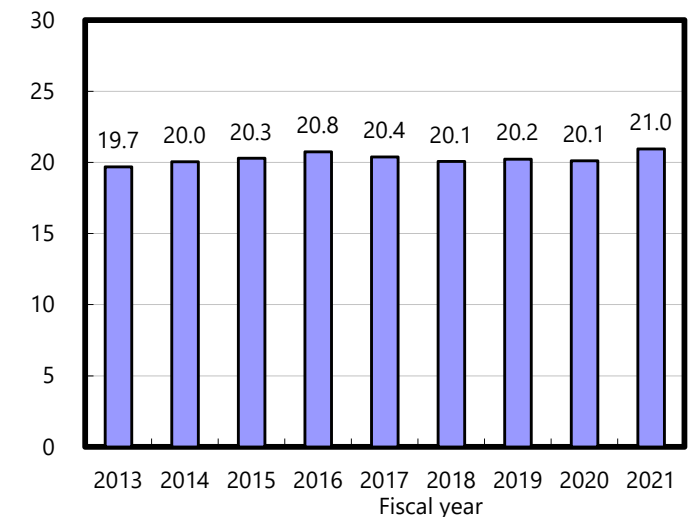
### Water Withdrawal

(million m<sup>3</sup>)



### Water Discharge

(million m<sup>3</sup>)



## 2. Addressing Climate Change

### CO<sub>2</sub> Emissions from Our Own Operations (Scope 1 & 2) <sup>(1)(2)(3)</sup>

Unit: thousand tons CO<sub>2</sub>

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

Scope 1: Direct emissions from operations including fuel combustion

Scope 2: Indirect emissions from the use of purchased electricity, steam, etc.

Notes:

1. In November 2021, we raised the emissions reduction target from 35% less to 50% less, compared to fiscal 2019.
2. We have changed the scope of data collection to solely include Toyo Seikan Group Holdings and its consolidated subsidiaries from the data disclosed in July 2022, excluding affiliates accounted for using equity method that were previously included, and therefore the figures published here are not comparable to those published previously.
3. We have corrected the double-counting of emissions we found for some overseas subsidiaries and accordingly revised the sums of emissions from domestic and overseas operations for previous fiscal years.

### GHG emissions from supply chain <sup>(1)</sup>

Unit: Thousand tons CO<sub>2</sub>

Category		FY2018	FY2019	FY2020	FY2021
Category 1	Purchased goods and services	3,664	4,510	4,114	4,641
Category 2	Capital goods	144	262	308	223
Category 3	Fuel- and energy-related activities (not included in scope 1 or scope 2)	197	234	220	235
Category 4	Upstream transportation and distribution	180	292	278	289
Category 5	Waste generated in operations	31	18	29	24
Category 6	Business travel	4	5	3	3
Category 7	Employee commuting	11	13	13	12
Category 8	Upstream leased assets	3	3	2	2
Category 9	Downstream transportation and distribution	1	3	2	2
Category 10	Processing of sold products	148	158	156	178
Category 11	Use of sold products	-	275	293	528
Category 12	End-of-life treatment of sold products	490	496	508	514
Category 13	Downstream leased assets	5	12	11	11
Category 14	Franchises	-	-	-	-
Category 15	Investments	-	90	88	100
Total		4,879	6,370	6,027	6,761

Notes:

1. We have changed the scope of data collection to include Toyo Seikan Group Holdings and its consolidated subsidiaries from the data for fiscal 2019, including all overseas consolidated subsidiaries, which were previously excluded from the scope, and therefore the figures calculated with the new scope are not comparable to those calculated with the conventional scope.

### 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
Total amount of waste (incl. valuable materials)	283,997	284,724	278,680	284,018	306,109	297,975	320,819	292,365	321,328
Landfilled (incl. simple incineration)	15,151	15,459	15,127	13,195	10,414	9,234	7,170	6,772	9,074
Recycling rate	94.7%	94.6%	94.6%	95.4%	96.6%	96.9%	97.8%	97.7%	97.2%

<Domestic>

Unit: ton

	Fiscal year								
	2013	2014	2015	2016	2017	2018	2019	2020	2021
Total amount of waste (incl. valuable materials)	266,652	265,446	258,947	264,302	256,497	241,712	244,381	227,071	242,432
Material recycling (incl. reuse)	248,207	247,067	239,540	244,884	239,782	225,861	231,769	212,630	225,943
Thermal recycling	5,175	5,593	6,549	7,258	7,746	8,131	6,607	8,634	8,405
Landfilled (incl. simple incineration)	13,270	12,787	12,858	12,160	8,969	7,720	6,005	5,777	8,084
Recycling rate	95.0%	95.2%	95.0%	95.4%	96.5%	96.8%	97.5%	97.5%	96.7%

#### (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
Amount of waste	1,382	1,459	1,325	1,300	987	991	1,377	1,250	1,472
Recycled	1,382	1,459	1,325	1,300	987	991	1,377	1,250	1,472
Landfilled	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
Released/transferred amount of chemicals subject to PRTR	525	554	545	504	502	513	477	433	432

#### (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
VOC emissions	2,224	2,278	2,234	2,287	2,518	2,558	2,667	2,678	2,767

## 5. Use of Water Resources

### (1) Water withdrawal

Unit: thousand m<sup>3</sup>

		Fiscal year								
		2013	2014	2015	2016	2017	2018	2019	2020	2021
Domestic	Clean water	7,469	8,379	8,249	8,361	8,425	8,065	7,808	7,811	8,180
	Industrial water	11,451	10,175	10,591	10,520	10,520	10,415	10,412	10,554	10,399
	Groundwater	2,137	2,183	1,970	1,924	2,090	2,015	1,947	1,802	1,854
	Recycled water	23	29	29	29	31	32	32	13	11
	Rainwater	9	8	8	8	8	8	9	8	9
	Subtotal	21,090	20,773	20,847	20,843	21,074	20,535	20,207	20,188	20,452
Overseas	Clean water	3,220	3,524	3,278	3,581	3,478	3,360	3,391	3,874	3,948
	Groundwater	0	0	0	121	87	56	85	51	18
	Subtotal	3,220	3,524	3,278	3,702	3,565	3,416	3,476	3,925	3,967
Total water withdrawal		24,309	24,297	24,124	24,544	24,639	23,951	23,684	24,113	24,419

### (2) Water discharge

Unit: thousand m<sup>3</sup>

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

### (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
NOx	443	457	445	438	419	393	364	326	356
SOx	714	884	913	1,030	799	738	745	697	720

## 7. Material Flows by Operating Company

Input/output data of major group companies

	INPUT(Usage)					OUTPUT						
	Materials (thou. tons)	Energy		Water withdrawal (thou. m <sup>3</sup> )	Production (thou. tons)	CO <sub>2</sub> emissions (thou. tons)	Waste					
		Electricity (mil. kWh)	Fuel (thou. kl of oil equivalent)				Waste (ton)	Recycled (ton)	Landfilled (ton)	Recycling rate		
Toyo Seikan	Metals	213	712	33	2,477	Metal products	176	390	10,969	10,968	1	99.9%
	Plastics	240				Plastic products	240					
	Other materials	22										
Toyo Kohan	Metals	506	285	27	11,965	Metal products	449	203	11,025	3,938	7,087	35.7%
	Plastics	13				Plastic products	5					
Tokan Kogyo	Plastics	19	91	2	168	Plastic products	10	41	5372	5337	35	99.3%
	Paper	56				Paper products	50					
Nippon Closures	Metals	12	137	3	288	Metal products	9	70	679	629	50	92.6%
	Plastics	57				Plastic products	56					
Toyo Glass	Glass	311	71	64	354	Glass products	311	187	953	750	203	78.7%
Mebius Packaging	Plastics	47	133	0.3	217.0	Plastic products	67	62.0	395.0	383.0	12.0	97.0%
Toyo Aerosol Industry	Other materials	63	18	2	292	Aerosol products/ filled products (mil. units)	248	12	1,411	1,411	0	100.0%
TOMATEC	Other materials	16	9	4	356	Other products	16	11	1,088	960	128	88.3%

## 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 2021.

## 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-

In January 2019, the Clean Ocean Material Alliance (CLOMA) was established with a wide range of business operators participating to address the problem of marine plastic litter, an emerging global challenge. CLOMA aims to promote the "3Rs" initiative for a sustainable use of plastic products and the development and introduction of alternative materials as well as to accelerate innovation through a public-private collaboration. Toyo Seikan Group Holdings has joined the alliance as a managing partner since its preparation phase and has been working as a key member of its subcommittee to promote information sharing and partnerships with relevant parties from across industries.