

Pioneer Group Environmental Data 2022

■ Targets, Plans and Performance

Category	Issue	Targets	Base value	FY2018	FY2019	FY2020	FY2021	FY2022	Self assessment ※1 FY2022	Unit
Control items	Prevention of Global Warming	<New target> Greenhouse gas emission Worldwide: 42% reduction from FY2021 to FY2030 (Target value: 20.8 thousand tonnes CO ₂) (4.2%/year, 1.5 Degrees Scenario estimation)	Result of FY2021 33.4	-	-	-	Base value 33.4	Reduction of 3.4% 32.2	X Not achieved the reduction of 4.2%/year	1,000 tonnes CO ₂
		<Old target> Greenhouse gas emission Worldwide: 30% reduction from FY2018 to FY2030 (Total amount of Scope1 and Scope2)	FY2018	Base year	Reduction of 2.7%	Reduction of 8.9%	Reduction of 21.4%	Reduction of 22.2%	○ Reduction of 22.2% from the Base year	%
		<Old target> Energy consumption Worldwide: 10% reduction from FY2010 to FY2020 (per unit of sales amount)	0.271	0.22	0.22	0.19	Target is transferred to the Greenhouse gas emission	Target is transferred to the Greenhouse gas emission	-	terajoule
		<Old target> Energy consumption Japan: 12% reduction from FY2010 to FY2021 (Gross emission)	974	740	677	546	400	Target is transferred to the Greenhouse gas emission	-	terajoule
Conservation of Resources, and Recycling	Amount of valuable resources /waste material Worldwide: 3% reduction/year from FY2011 (per unit of sales amount)	3.871	3.027 (Target 3.127 or lower)	2.260 (Target 3.033 or lower)	2.485 (Target 2.942 or lower)	2.058 (Target 2.854 or lower)	1.596 (Target 2.768 or lower)	○ Target value or lower	tonnes	
Monitoring items	Prevention of Global Warming	Management of the five Greenhouse gas emission (Five gases except CO ₂)	Only result is described	2.1	2.4	1.8	0.05	0.1	- ※3	1,000 tonnes CO ₂
		Management of the energy accompanying transportation of products Japan: Confirm it is less than 30 million tonne-kilometers	3,000	1,691	1,745	1,186	1,202	752	○ Base value or lower	10,000 tonne-kilometers
	Conservation of Resources, and Recycling	Recycling rate for valuable resources /waste material Japan: Maintaining 99.5% or higher Overseas: Maintaining 99% or higher	Japan : 99.5 Overseas : 99.0	Japan : 99.7 Overseas : 99.0	Japan : 99.7 Overseas : 99.3	Japan:99.8 Overseas:99.4	Japan:99.9 Overseas:99.4	Japan:99.9 Overseas:99.1	○ Base value or higher	%
		Management of the amount of water resources used Worldwide : maintaining FY2013 level	1,836	1,261	1,100	970	643	482	○ Base value or lower	1,000 ri
	Management of chemical substances	Management of the amount of office paper purchase Worldwide : maintaining FY2013 level	2.9	18.5	13.8	15.9	13.9	14.0	○ Base value or lower	Million sheets
		Management of emissions of PRTR chemical substances and VOCs※2 Worldwide maintaining FY2013 level	136	15※4	19※4	15※4	13※4	17※3	- ※3	tonnes
	Management of emissions of SOx, NOx, and dust Worldwide : maintaining FY2013 level	Sox 11 Nov15 Dust 0.3	Sox 1.0※4 Nov 6.0※4 Dust 0.2※4	Sox 1.0※4 Nov 2.8※4 Dust 0.08※4	Sox 1.0※4 Nov 2.8※4 Dust 0.08※4	Sox 1.1※4 Nov 2.1※4 Dust 0.06※4	Sox 1.0※4 Nov3.4※4 Dust 0.06※4	- ※3	tonnes	

※1 By regulation of Zero emission of waste (Pioneer's definition), it judges for every plant.

※2 The target material is 20 kinds for JEITA's independence reduction activity.

※3 Self-evaluation standards : ○-- Achieved the target / △-- Slightly did not reach the target achievement / ×-- Target was not achieved / ----- N/A

※4 Japan Data Only

■ Input and output

Input Amount of resources required for business activities

		FY2018	FY2019	FY2020	FY2021	FY2022	Unit
Procurement	Resources	60.0	40.0	39.0	31.8	24.0	1,000 tonnes
	Total energy	1,488	1,363	1,160	844	683	terajoule
Planning, design, production	Water consumption	1,260	1,100	970	640	480	1,000 m ³
	Chemical substances handled	64	48※1	36※1	21※1	27※1	tonnes
	Office paper	18.5	13.8	15.9	13.9	14.0	million sheets
Transportation	Goods Transported	49	32	31	26	20	1,000 tonnes
	Total energy	8	9.5	6	4.5	5.8	terajoule
Service	Water consumption	0.9	0.9	0.6	0.3	1.8	1,000 m ³

※1 Japan Data Only

Output Environmental impact emitted as a result of business activities

		FY2018	FY2019	FY2020	FY2021	FY2022	Unit
Planning, design, production	Greenhouse gas emission	85	76	61	41	33	1,000 tonnes CO ₂
	Waste and valuables generated	11.0	8.0	6.6	5.8	4.3	1,000 tonnes
	Amount recycled	11.0	7.0	6.5	5.7	4.2	1,000 tonnes
	Waste water	1,100	920	850	520	360	1,000 m ³
	Waste chemical substances	14※1	19※1	15※1	13※1	17※1	tonnes
	SOx	1.2	1.0	1.0※1	1.1※1	1.0※1	tonnes
Transportation	NOx	6	2.8	3.2※1	2.1※1	3.4※1	tonnes
	Greenhouse gas emission ※1	3.3	3.4	2.3	2.2	1.5	1,000 tonnes CO ₂
Used by customer	Recycled packaging materials※1	102	131	121	116	114	tonnes
Service	Greenhouse gas emission	0.4	0.5	0.3	0.2	0.3	1,000 tonnes CO ₂
	Waste and valuables generated	0.1	0.1	0.2	0.1	0.2	1,000 tonnes
	Amount recycled	0.1	0.1	0.2	0.1	0.2	1,000 tonnes
	Waste water	0.9	1.0	0.6	0.3	1.8	1,000 m ³

※1 Japan Data Only

■ Global Warming Prevention Activities

Greenhouse gases emissions

(Unit : 1,000 tonnes CO₂)

Region	Category	FY2018	FY2019	FY2020	FY2021	FY2022
	Japan	Scope 1	6	4	3	2.3
	Scope 2	34	31	24	17.5	11.6
	Scope 3	0	0	0	0	0
	PF ₂ ,HFC,etc.	2	2	2	0	0
	Total	42	37	29	19.9	13.3
Overseas	Scope 1	1	5	1	0	0
	Scope 2	42	36	31	20.5	18.8
	Scope 3	1	1	0	0.4	0.4
	PF ₂ ,HFC,etc.	0	0	0	0	0
	Total	43	37	32	21.1	19.2

Energy consumption

(Unit : terajoule)

Region	Category	FY2018	FY2019	FY2020	FY2021	FY2022
	Japan	Electricity	637	604	485	359
	Fuel	48	28	18	17	18
	Gas	47	41	37	17	4
	Cold water	8	7	4	6	4
	Total	740	680	544	400	276
Overseas	Electricity	729	655	607	438	400
	Fuel	18	15	9	7	6
	Gas	10	10	11	4	7
	Total	757	680	627	448	413

Reduction of Non-Energy-Derived Greenhouse Gases

(Unit : 1,000 tonnes CO₂e)

Region	Category	FY2018	FY2019	FY2020	FY2021	FY2022
Japan	Reduction of Non-Energy-Derived Greenhouse Gases	2.0	2.4	1.8	0.1	0.1

※ This data includes CO₂, CH₄, HFC, PFC, N₂O, SF₆, HFE, NF₃

Changes in CO₂ emissions by domestic products transportation

Region	Category	FY2018	FY2019	FY2020	FY2021	FY2022	Unit
	Japan	Basic unit ^{※1}	9.03	9.7	7.3	7.7	5.7
	Total amount	3,301	3,369	2,332	2,161	1,531	tonnes CO ₂

※1 Basic unit = CO₂ emissions (total amount) / sales

CO₂ reduction by modal shift

(Unit : tonnes CO₂)

Region	Category	FY2018	FY2019	FY2020	FY2021	FY2022
Japan	CO ₂ reduction by modal shift	73.0	113.0	90.6	71.6	76.3

Transition of office paper purchases

(Unit : million sheets)

Region	Category	FY2018	FY2019	FY2020	FY2021	FY2022
Japan	Office paper purchases	10.3	7.5	6.2	4.3	4.1
Overseas		8.2	6.3	9.7	9.4	9.8

■ Reduction in Waste and Valuables

Transition of generation amounts of waste and valuables

(Unit : tonnes)

Category	FY2018	FY2019	FY2020	FY2021	FY2022
Japan	2,045	2,013	1,528	1,157	1,218
Overseas	9,017	5,836	6,362	4,622	2,990

Transition of recycling rate

(Unit : %)

Category	FY2018	FY2019	FY2020	FY2021	FY2022
Japan	99.7	100.0	99.8	99.9	99.9
Overseas	99	89.1	99.3	99.4	99.1

Breakdown of waste and valuables

(Unit : %)

Japan	FY2018	FY2019	FY2020	FY2021	FY2022
Sludge	4.1	5.0	9.8	2.5	2.0
Waste oil	2.3	2.2	2.0	1.8	1.4
Waste acids	0.0	0.0	0.0	0.0	0.0
Waste alkali	0.5	0.3	0.2	0.5	0.3
Waste Plastics and rubber	26.2	23.0	17.4	24.0	26.0
Waste paper	37.1	42.3	40.5	50.7	49.3
Wood waste	3.2	2.2	1.0	0.4	1.3
Waste textile	0.0	0.0	0.0	0.1	0.0
Garbage	1.7	1.7	1.3	0.8	0.5
Waste metals	23.4	18.9	27.3	18.8	18.2
Glass and pottery waste	1.3	0.0	0.4	0.5	0.6

(Unit : %)

Overseas	FY2018	FY2019	FY2020	FY2021	FY2022
Sludge	0.4	0.7	0.5	0.6	1.1
Waste oil	0.1	0.2	0.1	0.0	0.0
Waste acids and alkali	0.3	0.3	0.5	0.1	0.2
Waste Plastics and rubber	4.4	6.9	7.8	8.6	9.9
Waste paper	42.9	37.0	43.4	48.5	63.0
Wood waste	2.5	1.5	2.3	2.5	4.4
Garbage	10.4	9.3	6.2	5.1	3.5
Waste metals	25.2	26.1	19.9	18.6	2.2
Glass and pottery waste	0.3	0.3	0.2	0.3	0.3
General waste from dormitories	4.1	5.8	3.7	7.5	11.8
Other	9.4	11.8	15.4	8.2	3.6

■ Management of Chemical Substances

Trends in VOC emissions

(Unit : tonnes)

Category	FY2018	FY2019	FY2020	FY2021	FY2022
Japan	14.0	18.0	15.0	12.8	10.7
Overseas	— ^{※1}	— ^{※1}	— ^{※1}	— ^{※1}	— ^{※1}

※1 No data

Trends in PRTR chemical substances handling and emissions

(Unit : tonnes)

Category	FY2018	FY2019	FY2020	FY2021	FY2022
Japan	27.0	15.0	13.0	8.5	8.7
	1.0	0.8	0.6	0.6	0.6

※ Japan Data Only

Handling, transfer and emissions of PRTR chemical substances

(Unit : tonnes)

	Substance	Volume handled	Emissions			Transferred		Transferred in the products	Volume removed or disposed	Volume recycled
			Volume emitted into atmosphere	Volume emitted into public water	Volume emitted to soil	Volume transferred as waste	Volume transferred to sewers			
Japan	FY2022	Methylnaphthalen ^{※1}	6.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0
		Hydrogen Fluoride and its salt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Toluene	2.3	0.5	0.0	0.0	1.7	0.0	0.1	0.0
		1,2,4-trimethyl benzene	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0
		Xylene	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0
		2-ethoxyethyl acetate ^{※2}	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total	8.6	0.5	0.0	0.0	1.7	0.0	6.4	0.0	
	FY2021	Methylnaphthalen ^{※1}	5.4	0.0	0.0	0.0	0.0	0.0	5.4	0.0
		Hydrogen Fluoride and its salt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Toluene	2.5	0.5	0.0	0.0	2.0	0.0	0.1	0.0
		1,2,4-trimethyl benzene	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0
		Xylene	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0
		2-ethoxyethyl acetate ^{※2}	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total	8.3	0.6	0.0	0.0	2.0	0.0	5.8	0.0	
	FY2020	Methylnaphthalen ^{※1}	4.8	0.0	0.0	0.0	0.0	0.0	4.8	0.0
		Hydrogen Fluoride and its salt	3.7	0.0	0.0	0.0	0.0	0.0	0.0	3.7
		Toluene	2.6	0.5	0.0	0.0	2.0	0.0	0.1	0.0
		1,2,4-trimethyl benzene	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0
		Xylene	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0
		2-ethoxyethyl acetate ^{※2}	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total	11.4	0.5	0.0	0.0	2.0	0.0	5.2	3.7	
	FY2019	Methylnaphthalen ^{※1}	5.6	0.0	0.0	0.0	0.0	0.0	5.6	0.0
		Hydrogen Fluoride and its salt	4.5	0.0	0.0	0.0	0.0	0.0	0.0	4.5
		Toluene	2.9	0.6	0.0	0.0	2.1	0.0	0.2	0.0
1,2,4-trimethyl benzene		0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	
Xylene		0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	
2-ethoxyethyl acetate ^{※2}		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total	13.8	0.7	0.0	0.0	2.1	0.0	6.6	4.5		
FY2018	Methylnaphthalen ^{※1}	11.4	0.1	0.0	0.0	0.0	0.0	11.4	0.0	
	Hydrogen Fluoride and its salt	3.6	0.0	0.0	0.0	0.0	0.0	0.0	3.6	
	Toluene	3.1	0.6	0.0	0.0	2.5	0.0	0.0	0.0	
	1,2,4-trimethyl benzene	2.9	0.0	0.0	0.0	0.0	0.0	2.9	0.0	
	Xylene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	2-ethoxyethyl acetate ^{※2}	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total	21.1	0.7	0.0	0.0	2.5	0.0	14.3	3.6		

※1 Methylnaphthalen is included in the distilled fuel for power generation. This table is the result of the aggregate quantity that one substance handled by one plant exceeds one tonne in Japan.

※2 2-ethoxyethyl acetate as like Ethylene glycol monoethyl ether acetate.

Trends in SOx, NOx and Smoke Dust emissions

(Unit : tonnes)

Category	FY2018	FY2019	FY2020	FY2021	FY2022	
Japan	Dust	0.2	0.1	0.1	0.1	0.1
	NOx	6.0	2.8	3.2	2.1	3.4
	SOx	1.2	1.0	1.0	1.1	1.0
Overseas	Dust	0.0	0.0	— ^{※1}	— ^{※1}	— ^{※1}
	NOx	0.0	0.0	— ^{※1}	— ^{※1}	— ^{※1}
	SOx	0.0	0.0	— ^{※1}	— ^{※1}	— ^{※1}

※1 No data

■ Reduction of Water Usage and Discharged Water Amounts

Water usage

(Unit : 1,000m³)

	Category	FY2018	FY2019	FY2020	FY2021	FY2022
Japan	Industrial Water	71	59	49	51	15
	Underground water	400	347	316	167	54
	Public water supply	78	76	55	37	37
Overseas	Industrial Water	0	0	0	0	0
	Underground water	0	1	1	1	0
	Public water supply	712	616	605	389	376

Discharged water

(Unit : 1,000m³)

	Category	FY2018	FY2019	FY2020	FY2021	FY2022
Japan	Public water	257	209	191	110	4
	Sewer	273	262	222	137	97
	Other	12	4	0	0	0
Overseas	Public water	139	72	88	48	0
	Sewer	417	374	349	222	256
	Other	0	0	0	0	0

■ Number of Environment-related Qualification (Japan Data Only)

The Pioneer Group has secured staff numbers exceeding the legally required number of qualified persons in Japan.

(Unit : Number of people)

Qualification	Legally required number	FY2018	FY2019	FY2020	FY2021	FY2022	
National qualification	Pollution-related						
	Pollution Control Manager	2	13	23	14	5	5
	Qualified Person for Energy Management	1	6	6	8	4	4
	Energy Manager and Energy Management	4	11	8	7	6	7
	Managers of the Specially Controlled Industrial Waste	7	40	34	27	19	18
	Hazardous Materials Officers	9	188	155	165	69	70
	Specified High Pressure Gas Handling Supervisor	0	50	37	37	1	1
	High Pressure Gas Handling Supervisor	0	2	2	2	0	0
	Work Supervisor (Organic Solvents, Lead, Specified Chemical Substance)	15	323	320	252	108	132
	Toxic Substance Handling Officer	0	10	9	3	2	1
Company qualification	Environmental management						
	Internal Environmental Auditor (Japan)	— ^{※1}	47	51	34	29	31
	Internal Environmental Auditor (Overseas)	— ^{※1}	188	160	157	112	69

※1 Not applicable

■ Environmental data of major offices

Site name	District	Energy consumption (Unit : Gigajour)	Waste and Valuables (Unit : tonnes)	Chemical substances emissions (Unit : tonnes)	Water use (Unit : 1,000m)
FY2022					
Pioneer Corporation Headquarters	Tokyo	12,409	49	0.0	— ^{*1}
Pioneer Corporation Kawagoe plant	Saitama pref.	84,706	950	3.4	25.2
Pioneer Finetech Corporation	Saitama pref.	16,190	77	7.7	1.7
Tohoku Pioneer Corporation	Yamagata pref.	140,927	1	0.0	73.5
Mogami Denki Corporation	Yamagata pref.	1,357	1	0.1	1.8
Pioneer Automotive Technologies, Inc. (PAT)	USA	26,255	1,416	— ^{*2}	4.3
Pioneer do Brasil Ltda.(PBL)	Brazil	36,271	135	— ^{*2}	0.0
Pioneer Manufacturing (Thailand) Co., Ltd. (PTM)	Thailand	186,897	602	— ^{*2}	104.6
Tohoku Pioneer (Vietnam) Co., Ltd.(TPV)	Vietnam	93,782	62	— ^{*2}	38.5
Pioneer Technology (Dongguan) Co., Ltd. (PTD)	China	49,813	347	— ^{*2}	88.5
Mogami Dongguan Electronics Co.,Ltd. (MDE)	China	5,404	78	— ^{*2}	139.7
FY2021					
Pioneer Corporation Headquarters	Tokyo	17,217	3	0.0	— ^{*1}
Pioneer Corporation Kawagoe plant	Saitama pref.	87,195	892	2.0	25.6
Pioneer Finetech Corporation	Saitama pref.	15,917	65	10.6	2.0
Tohoku Pioneer Corporation	Yamagata pref.	146,182	93	0.0	70.0
Mogami Denki Corporation	Yamagata pref.	1,419	2	0.1	2.3
Pioneer Automotive Technologies, Inc. (PAT)	USA	27,176	1,498	— ^{*2}	4.9
Pioneer do Brasil Ltda.(PBL)	Brazil	48,160	227	— ^{*2}	0.0
Pioneer Manufacturing (Thailand) Co., Ltd. (PTM)	Thailand	182,216	613	— ^{*2}	88.9
Tohoku Pioneer (Thailand) Co., Ltd. (TPT)	Thailand	36,685	813	— ^{*2}	24.7
Tohoku Pioneer (Vietnam) Co., Ltd.(TPV)	Vietnam	82,295	666	— ^{*2}	36.3
Pioneer Technology (Dongguan) Co., Ltd. (PTD)	China	55,690	501	— ^{*2}	95.6
Mogami Dongguan Electronics Co.,Ltd. (MDE)	China	4,517	107	— ^{*2}	136.8
FY2020					
Pioneer Corporation Headquarters	Tokyo	23,271	13	0.0	— ^{*1}
Pioneer Corporation Kawagoe plant	Saitama pref.	99,980	978	4.5	41.2
Pioneer Finetech Corporation	Saitama pref.	15,340	74	9.4	2.8
Tohoku Pioneer Corporation	Yamagata pref.	152,647	320	0.0	66.8
Mogami Denki Corporation	Yamagata pref.	1,836	1.0	0.0	3.2
Pioneer Micro Technology Corporation	Yamanashi pref.	218,614	175	0.8	304.4
Pioneer Automotive Technologies, Inc. (PAT)	USA	31,684	1,605	— ^{*2}	3.9
Pioneer Automotive de Mexico S.A.de C.V. (PMX)	Mexico	15,653	58	— ^{*2}	— ^{*1}
Pioneer do Brasil Ltda.(PBL)	Brazil	55,422	378	— ^{*2}	1.0
Pioneer Manufacturing (Thailand) Co., Ltd. (PTM)	Thailand	201,472	827	— ^{*2}	130.6
Tohoku Pioneer (Thailand) Co., Ltd. (TPT)	Thailand	48,829	1,290	— ^{*2}	39.8
Tohoku Pioneer (Vietnam) Co., Ltd.(TPV)	Vietnam	91,933	930	— ^{*2}	40.8
Pioneer Technology (Shanghai) Co., Ltd. (PSG)	China	94,575	196	— ^{*2}	33.7
Pioneer Technology (Dongguan) Co., Ltd. (PTD)	China	60,818	550	— ^{*2}	128.4
Mogami Dongguan Electronics Co.,Ltd. (MDE)	China	5,910	80	— ^{*2}	171.4
FY2019					
Pioneer Corporation Headquarters	Tokyo	28,807	87	0.1	— ^{*1}
Pioneer Corporation Kawagoe plant	Saitama pref.	112,355	974	6.0	48.6
Pioneer Finetech Corporation	Saitama pref.	16,430	75	9.4	2.3
Tohoku Pioneer Corporation	Yamagata pref.	196,342	179	0.0	81.6
Mogami Denki Corporation	Yamagata pref.	1,994	1.0	0.1	3.0
Tohoku Pioneer EG Corporation	Yamagata pref.	11,227	87	0.0	3.6
Towada Pioneer Corporation	Aomori pref.	26,754	406	1.7	6.0
Pioneer Micro Technology Corporation	Yamanashi pref.	257,959	97	1.2	332.4
Pioneer Automotive Technologies, Inc. (PAT)	USA	34,433	1,085	0.0	3.7
Pioneer Automotive de Mexico S.A.de C.V. (PMX)	Mexico	22,990	99	0.0	— ^{*1}
Pioneer do Brasil Ltda.(PBL)	Brazil	41,302	300	0.0	1.0
Pioneer Manufacturing (Thailand) Co., Ltd. (PTM)	Thailand	204,991	617	0.0	141.1
Tohoku Pioneer (Thailand) Co., Ltd. (TPT)	Thailand	50,118	1,694	0.0	48.3
Tohoku Pioneer (Vietnam) Co., Ltd. (TPV)	Vietnam	77,215	615	0.0	38.3
Shanghai Pioneer Speakers Co., Ltd. (SPS)	China	16,960	137	0.0	18.6
Pioneer Technology (Shanghai) Co., Ltd. (PSG)	China	144,727	201	0.0	38.4
Pioneer Technology (Dongguan) Co., Ltd. (PTD)	China	63,900	596	0.0	131.8
Dongguan Monetch Electronic Co., Ltd. (MND)	China	8,451	29	0.0	15.3
Mogami Dongguan Electronics Co.,Ltd. (MDE)	China	6,876	122	0.0	179.8

※1 There is no use of water at the exclusive possession part.

※2 No data

FY2018					
Pioneer Corporation Headquarters	Tokyo	37,060	1.7	0.1	— ^{*1}
Pioneer Corporation Kawagoe plant	Saitama pref.	117,477	707	7.1	48.4
Pioneer FA corporation	Saitama pref.	4,541	10	0.0	1.0
Pioneer Finetech Corporation	Saitama pref.	17,003	91	4.1	1.9
Tohoku Pioneer Corporation	Yamagata pref.	211,826	152	0.1	100.0
Mogami Denki Corporation	Yamagata pref.	2,220	1.6	0.0	3.0
Tohoku Pioneer EG Corporation	Yamagata pref.	27,148	434	0.0	6.2
Towada Pioneer Corporation	Aomori pref.	27,557	407	1.8	6.5
Pioneer Micro Technology Corporation	Yamanashi pref.	278,440	133	1.2	380.7
Pioneer Automotive Technologies, Inc. (PAT)	USA	32,524	1,421	0.0	4.0
Pioneer Automotive de Mexico S.A.de C.V. (PMX)	Mexico	11,240	96	0.0	— ^{*1}
Pioneer do Brasil Ltda.(PBL)	Brazil	32,018	1,043	0.0	1.0
Pioneer Technology (Malaysia) Sdn. Bhd.(MPT)	Malaysia	70,028	27	0.0	35.4
Pioneer Manufacturing (Thailand) Co., Ltd. (PTM)	Thailand	199,932	705	0.0	151.0
Tohoku Pioneer (Thailand) Co., Ltd. (TPT)	Thailand	58,440	2,185	0.0	50.3
Tohoku Pioneer (Vietnam) Co., Ltd.(TPV)	Vietnam	64,806	838	0.0	35.8
Shanghai Pioneer Speakers Co., Ltd. (SPS)	China	28,492	548	0.0	25.8
Pioneer Technology (Shanghai) Co., Ltd. (PSG)	China	170,433	229	0.0	40.3
Pioneer Technology (Dongguan) Co., Ltd. (PTD)	China	68,985	630	0.0	151.6
Dongguan Monitech Electronic Co., Ltd. (MIND)	China	5,135	39	0.0	26.9
Mogami Dongguan Electronics Co., Ltd. (MDE)	China	7,456	150	0.0	187.6

*1 There is no use of water at the exclusive possession part.

Period covered

The period covered by the data is FY2022 (April 2021 - March 2022).
There may be some discrepancies between subtotals and totals due to rounding off.

Organization covered

The scope of this data is as follows. (Site name is as of March 2022.)
For the scope of data aggregation reports on or before FY2021, please refer to "Pioneer Group Environmental Data" for that year.

Japan

Pioneer Corporation	Pioneer Service Network Corporation
Headquarters	World Parts Center / Repair Technical Group
Kawagoe Plant	Pioneer System Technologies Corporation
Tohoku Pioneer Corporation	Pioneer Finetech Corporation
Headquarters	
Yonezawa Plant (Name has been changed to Soar Corporation since April 2022)	
Mogami Denki Corporation	

THE AMERICAS

Pioneer North America, Inc. (PNA)	Pioneer do Brasil Ltda. (PBL)
Pioneer Automotive Technologies, Inc. (PAT)	

Europe

Pioneer Europe NV (PEE)

ASIA & OCEANIA

Pioneer Electronics Asiacentre Pte. Ltd. (PAC)	Pioneer China Holding Co., Ltd. (PCH)
Pioneer Manufacturing (Thailand) Co., Ltd. (PTM)	Pioneer Technology (Dongguan) Co., Ltd. (PTD)
Tohoku Pioneer (Vietnam) Co., Ltd. (TPV)	Pioneer (HK) Ltd. (PHK)
	Mogami Dongguan Electronics Co.,Ltd. (MDE)