

Pioneer Group Environmental Data 2021

■ Targets, Plans and Performance

Category	Issue	Targets	Base value	FY2017	FY2018	FY2019	FY2020	FY2021	Self assessment * FY2021	Unit
Control Items	Prevention of Global Warming	Greenhouse gas emission Worldwide: 30% reduction from FY2018 to FY2030 (Total amount of Scope1 and Scope2)	Result of FY2018 44.8	-	Base value 44.8	Reduction of 2.7% 43.6	Reduction of 8.9% 39.8	Reduction of 21.4% 35.2	○ Reduction of 21.4% from the Base value	1,000 tonnes CO ₂
		Energy consumption Worldwide: 10% reduction from FY 2010 to FY2020 (per unit of sales amount)	0.271	0.221	0.22	0.22	0.19	Target is transferred to the Greenhouse Gas	- *3	terajoule
	Conservation of Resources, and Recycling	Energy consumption Japan: 12% reduction from FY2010 to FY2021 (Gross emission)	974	743	740	677	546	400	○ Reduction of 59% from the Base value	terajoule
Monitoring Items	Prevention of Global Warming	Amount of valuable resources /waste material Worldwide: 3% reduction/ year from FY2011 (per unit of sales amount)	3.871	(Target 3.224 or lower)	(Target 3.127 or lower)	(Target 3.033 or lower)	(Target 2.942 or lower)	(Target 2.854 or lower)	○ Achieved	tonnes
		Management of the five Greenhouse gas emission (Five gases except CO ₂)	Only result is described	1.6	2.1	2.4	1.8	0.05	- *3	1,000 tonnes CO ₂
	Conservation of Resources, and Recycling	Management of the energy accompanying transportation of products Japan: Confirm it is less than 30 million tonne-kilometers	3,000	1,508	1,691	1,745	1,186	1,202	○ Achieved 3,000 or lower was confirmed	10,000 tonne-kilometers
		Recycling rate for valuable resources /waste material Japan: Maintaining 99.5% rate or higher Overseas: Maintaining 99% rate or higher	Japan : 99.5 Overseas : 99.0	Japan : 99.8 Overseas : 99.3	Japan : 99.7 Overseas : 99.0	Japan : 99.7 Overseas : 99.0	Japan:99.8 Overseas:99.3	Japan:99.9 Overseas:99.4	○ Achieved	%
		Management of the amount of water resources used Worldwide : maintaining FY2013 level	1,836	1,508	1,261	1,100	970	643	○ Achieved Keep Base value 34% reduction from previous year	1,000 m ³
	Management of chemical substances	Management of the amount of office paper purchase Worldwide : maintaining FY2013 level	2,860	1,920	1,850	1,380	1,397	1,391	○ Achieved Target is 2,860, but reduced to 1,391.	10,000 sheet
		Management of emissions of PRTR chemical substances and VOCs** Worldwide maintaining FY2013 level	136	57	15**4	19**4	15**4	13**4	- *3	tonnes
	Management of emissions of SOx, NOx, and dust Worldwide : maintaining FY2013 level	Sox 11 Nox15 Dust 0.3	Sox 1.1 Nox 13.1 Dust 0.2	Sox 1.2**1 Nox 6.0**1 Dust 0.2**1	Sox 1.0**1 Nox 2.8**1 Dust 0.08**1	Sox 1.0**1 Nox 2.8**1 Dust 0.08**1	Sox 1.1**1 Nox 2.1**1 Dust 0.06**1	- *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

		FY2017	FY2018	FY2019	FY2020	FY2021	Unit
Procurement	Resources	6.6	6	4.0	3.9	3.2	10,000 tonnes
	Total energy	1,536	1,488	1,363	1,160	844	terajoule
Planning, design, production	Water consumption	151	126	110	97.00	64	10,000 m ³
	Chemical substances handled	58	64	48**1	36**1	21**1	tonnes
	Office paper	1,920	1,850	1,382	1,397	1,391	10,000 sheets
Transportation	Goods transported	5.5	4.9	3.2	3.1	2.6	10,000 tonnes
	Total energy	8.1	8	9.5	6	4.5	terajoule
Service	Water consumption	876	876	876	594	349	m ³

*1 Japan Data Only

Output Environmental impact emitted as a result of business activities

		FY2017	FY2018	FY2019	FY2020	FY2021	Unit
Planning, design, production	Greenhouse gas emission	8.6	8.5	7.6	6.1	4.1	10,000 tonnes CO ₂
	Waste and valuables generated	1.1	1.1	0.8	0.66	0.58	10,000 tonnes
	Amount recycled	1.1	1.1	0.7	0.65	0.57	10,000 tonnes
	Waste water	126	110	92	85	52	10,000 m ³
	Waste chemical substances	122	14**1	19**1	15**1	13**1	tonnes
	SOx	1.1	1.2	1.0	1.0**1	1.1**1	tonnes
Transportation	NOx	13.1	6	2.8	3.2**1	2.1**1	tonnes
	Greenhouse gas emission **	3.5	3.3	3.4	2.3	2.2	1,000 tonnes CO ₂
Used by customer	Recycled packaging materials**1	105	102	131	121	116	tonnes
Service	Greenhouse gas emission	394	388	455	281	190	tonnes CO ₂
	Waste and valuables generated	121	103	88	249	62	tonnes
	Amount recycled	121	103	88	249	62	tonnes
	Waste water	876	876	976	594	349	m ³

*1 Japan Data Only

■ Global Warming Prevention Activities

Greenhouse gases emissions

(Unit : 1,000 tonnes CO₂)

	Category	FY2017	FY2018	FY2019	FY2020	FY2021
Japan	Scope 1	6	6	4	3	2.3
	Scope 2	34	34	31	24	17.5
	Scope 3	0	0	0	0	0
	PFC,HFC,etc.	2	2	2	2	0
	Total	42	42	37	29	19.8
Overseas	Scope 1	2	1	5	1	0
	Scope 2	44	42	36	31	20.5
	Scope 3	1	1	1	0	0.4
	PFC,HFC,etc.	0	0	0	0	0
	Total	46	43	37	32	21.1

Energy consumption

(Unit : terajoule)

	Category	FY2017	FY2018	FY2019	FY2020	FY2021
Japan	Electricity	642	637	604	485	359
	Fuel	53	48	28	18	17
	Gas	48	47	41	37	17
	Cold water	8	8	7	4	6
	Total	743	740	680	544	400
Overseas	Electricity	755	729	655	607	438
	Fuel	21	18	15	9	7
	Gas	16	10	10	11	4
	Total	792	757	680	627	448

Reduction of Non-Energy-Derived Greenhouse Gases

(Unit : 1,000 tonnes CO₂e)

	Category	FY2017	FY2018	FY2019	FY2020	FY2021
Japan	Reduction of Non-Energy-Derived Greenhouse Gases	1.6	2.0	2.4	1.8	0.1

※ This data includes CO₂, CHC04, HFC, PFC, N2O, SF6, HFE, NF3

Changes in CO₂ emissions by domestic products transportation

	Category	FY2017	FY2018	FY2019	FY2020	FY2021	Unit
Japan	Basic unit ^{※1}	9.16	9.03	9.7	7.3	7.7	tonnes-CO ₂ /billion JPY
	Total amount	3,543	3,301	3,369	2,332	2,161	tonnes CO ₂

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

CO₂ reduction by modal shift

(Unit : 1,000 tonnes CO₂e)

	Category	FY2017	FY2018	FY2019	FY2020	FY2021
Japan	CO ₂ reduction by modal shift	39.6	73.0	113.0	90.6	71.6

Transition of office paper purchases

(Unit : million sheets)

	Category	FY2017	FY2018	FY2019	FY2020	FY2021
Japan	Office paper purchases	10.5	10.3	7.5	6.2	4.3
Overseas		8.6	8.2	6.3	9.7	9.4

■ Reduction in Waste and Valuables

Transition of generation amounts of waste and valuables

(Unit : tonnes)

Category	FY2017	FY2018	FY2019	FY2020	FY2021
Japan	1,812	2,045	2,013	1,528	1,157
Overseas	9,543	9,017	5,836	6,362	4,622

Transition of recycling rate

(Unit : %)

Category	FY2017	FY2018	FY2019	FY2020	FY2021
Japan	99.8	99.7	100.0	99.8	99.9
Overseas	99.3	99	89.1	99.3	99.4

Breakdown of waste and valuables

(Unit : %)

Category	FY2017	FY2018	FY2019	FY2020	FY2021
Japan					
Sludge	4.8	4.1	5.0	9.8	2.5
Waste oil	3.1	2.3	2.2	2.0	1.8
Waste acids	0.0	0.0	0.0	0.0	0.0
Waste alkali	0.3	0.5	0.3	0.2	0.5
Waste Plastics and rubber	26.5	26.3	23.0	17.4	24.0
Waste paper	40.2	37.1	42.3	40.5	50.7
Wood waste	3.1	3.2	2.2	1.0	0.4
Waste textile	0.0	0.0	0.0	0.0	0.1
Garbage	2.4	1.7	1.7	1.3	0.8
Waste metals	18.7	23.4	18.9	27.3	18.8
Glass and pottery waste	0.9	1.3	0.0	0.4	0.5

(Unit : %)

Category	FY2017	FY2018	FY2019	FY2020	FY2021
Overseas					
Sludge	0.4	0.4	0.7	0.5	0.6
Waste oil	0.1	0.1	0.2	0.1	0.0
Waste acids and alkali	0.4	0.3	0.3	0.5	0.1
Waste Plastics and rubber	3.7	4.4	6.9	7.8	8.6
Waste paper	39.5	42.9	37.0	43.4	48.5
Wood waste	2.3	2.5	1.5	2.3	2.5
Garbage	11.1	10.4	9.3	6.2	5.1
Waste metals	26.9	25.2	26.1	19.9	18.6
Glass and pottery waste	0.3	0.3	0.3	0.2	0.3
General waste from dormitories	4.4	4.1	5.8	3.7	7.5
Other	10.8	9.4	11.8	15.4	8.2

■ Management of Chemical Substances

Trends in VOC emissions

(Unit : tonnes)

Category	FY2017	FY2018	FY2019	FY2020	FY2021
Japan	36.0	14.0	18.0	15.0	12.8
Overseas	86.0	— ^{※1}	— ^{※1}	— ^{※1}	— ^{※1}

※1 No data

Trends in PRTR chemical substances handling and emissions

(Unit : tonnes)

Category	FY2017	FY2018	FY2019	FY2020	FY2021
Japan	26.0	27.0	15.0	13.0	8.5
	1.0	1.0	0.8	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	FY2021	Methylnaphthalen ^{※1}	5.4	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0
		Hydrogen Fluoride not as salt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Toluene	2.5	0.0	0.0	0.0	2.0	0.0	0.1	0.0	0.0
		1,2,4-trimethyl benzene	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
		Xylene	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
		2-ethoxyethyl acetate ^{※2}	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total	8.3	0.0	0.0	0.0	2.0	0.0	5.8	0.0	0.0	
	FY2020	Methylnaphthalen ^{※1}	4.8	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0
		Hydrogen Fluoride not as salt	3.7	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0
		Toluene	2.6	0.5	0.0	0.0	2.0	0.0	0.1	0.0	0.0
		1,2,4-trimethyl benzene	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
		Xylene	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
		2-ethoxyethyl acetate ^{※2}	0.0	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	0.0	
	FY2019	Methylnaphthalen ^{※1}	5.6	0.0	0.0	0.0	2.0	0.0	5.6	0.0	0.0
		Hydrogen Fluoride not as salt	4.5	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0
		Toluene	2.9	0.6	0.0	0.0	2.1	0.0	0.2	0.0	0.0
		1,2,4-trimethyl benzene	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
		Xylene	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
		2-ethoxyethyl acetate ^{※2}	0.0	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	0.0	
	FY2018	Methylnaphthalen ^{※1}	11.4	0.1	0.0	0.0	0.0	0.0	11.4	0.0	0.0
		Hydrogen Fluoride not as salt	3.6	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0
		Toluene	3.1	0.6	0.0	0.0	2.5	0.0	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	0.0
		Xylene	0.0	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	0.0
	Total	21.1	0.7	0.0	0.0	2.5	0.0	14.3	3.6	0.0	
	FY2017	Methylnaphthalen ^{※1}	12.1	0.1	0.0	0.0	0.0	0.0	12	0.0	0.0
		Hydrogen Fluoride not as salt	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Toluene		3.4	0.7	0.0	0.0	2.3	0.0	0.4	0.0	0.0	
1,2,4-trimethyl benzene		2.8	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	
Xylene		2.5	0.1	0.0	0.0	0.0	0.0	2.4	0.0	0.0	
2-ethoxyethyl acetate ^{※2}		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total	23.9	0.87	0.0	0.0	2.3	0.0	17.6	0.0	0.0		

※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	FY2017	FY2018	FY2019	FY2020	FY2021
Japan	0.2	0.2	0.1	0.1	0.1
	13.0	6.0	2.8	3.2	2.1
	1.1	1.2	1.0	1.0	1.1
Overseas	0.0	0.0	0.0	— ^{※1}	— ^{※1}
	0.1	0.0	0.0	— ^{※1}	— ^{※1}
	0.1	0.0	0.0	— ^{※1}	— ^{※1}

※1 No data

■ Reduction of Water Usage and Discharged Water Amounts

Water usage

		(Unit : 1,000ml)				
	Category	FY2017	FY2018	FY2019	FY2020	FY2021
Japan	Industrial Water	70	71	59	49	51
	Underground water	422	400	347	316	167
	Public water supply	78	78	76	55	37
Overseas	Industrial Water	0	0	0	0	0
	Underground water	37	0	1	1	1
	Public water supply	901	712	616	605	389

Discharged water

		(Unit : 1,000ml)				
	Category	FY2017	FY2018	FY2019	FY2020	FY2021
Japan	Public water	288	257	209	191	110
	Sewer	267	273	262	222	137
	Other	9	12	4	0	0
Overseas	Public water	70	139	72	88	48
	Sewer	631	417	374	348	222
	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	FY2017	FY2018	FY2019	FY2020	FY2021		
National qualification	Pollution-related							
	Pollution Control Manager	2	13	13	23	14	5	
	Energy							
	Qualified Person for Energy Management	1	6	6	8	4		
	Energy Manager and Energy	4	6	11	8	6		
	Waste							
	Managers of the Specially Controlled Industrial waste	7	36	40	34	27	19	
	Hazardous Materials Offers	9	155	188	155	165	69	
	Handling of hazardous materials							
	Specified High Pressure Gas Handling Supervisor	0	42	50	50	37	1	
	High Pressure Gas Handling Supervisor	0	2	2	2	2	0	
	Work Supervisor	15	314	323	320	252	108	
Company qualification	Environmental management	Organic Solvents Load Specified Chemical	0	2	10	9	3	2
		Toxic Substance Handling Officer	0	0	0	0	0	0
		Internal Environmental Auditor (Japan)	— ^{※1}	38	47	51	34	29
		Internal Environmental Auditor	— ^{※1}	190	188	160	157	112

※1 Not applicable

■ Environmental data of major offices

Site name	District	Energy consumption (Unit : GigaJouir)	Waste and Valuables (Unit : tonnes)	Chemical substances emissions (Unit : tonnes)	Water use (Unit : 1,000m)
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	49,160	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	566	—※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	136.6
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. (PSC)	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	28.2
Shanghai Pioneer Speakers Co., Ltd. (SPS)	China	16,960	137	0.0	18.6
Pioneer Technology (Shanghai) Co., Ltd. (PSC)	China	144,727	201	0.0	38.4
Pioneer Technology (Dongguan) Co., Ltd. (PTD)	China	63,900	596	0.0	131.8
Dongguan Monetech Electronic Co., Ltd. (MND)	China	8,451	29	0.0	15.3
Mogami Dongguan Electronics Co.,Ltd. (MDE)	China	6,676	122	0.0	179.8
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. (NPT)	Malaysia	70,028	27	0.0	35.4
Pioneer Manufacturing (Thailand) Co., Ltd. (PTM)	Thailand	199,922	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. (PSC)	China	170,433	229	0.0	40.3
Pioneer Technology (Dongguan) Co., Ltd. (PTD)	China	69,985	630	0.0	151.6
Dongguan Monetech Electronic Co., Ltd. (MND)	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.

※2 No data

Site name	District	Energy consumption (Unit : Gigajour)	Waste and Valuables (Unit : tonnes)	Chemical substances emissions (Unit : tonnes)	Water use (Unit : 1,000m)
FY2017					
Pioneer Corporation Headquarters	Tokyo	30,905	2.0	0.0	— ※1
Pioneer Corporation Kawagoe plant	Saitama pref.	117,442	686	8.9	47.8
Pioneer FA corporation	Saitama pref.	4,542	9.0	0.0	1.2
Pioneer Finetech Corporation	Saitama pref.	16,732	75	6.0	1.8
Tohoku Pioneer Corporation	Yamagata pref.	219,697	170	0.6	96.1
Moqami Denki Corporation	Yamagata pref.	2,470	1.0	0.0	2.7
Tohoku Pioneer EG Corporation	Yamagata pref.	26,411	197	0.0	4.8
Towada Pioneer Corporation	Aomori pref.	27,822	390	2.1	7.0
Pioneer Micro Technology Corporation	Yamanashi pref.	280,349	116	0.5	407.3
Pioneer Automotive Technologies, Inc. (PAT)	USA	32,546	1,436	0.0	3.5
Pioneer do Brasil Ltda.(PBL)	Brazil	32,018	773	0.0	37.2
Pioneer Technology (Malaysia) Sdn. Bhd.(MPT)	Malaysia	77,708	728	0.0	43.6
Pioneer Manufacturing (Thailand) Co., Ltd. (PTM)	Thailand	197,357	731	0.0	148.8
Tohoku Pioneer (Thailand) Co., Ltd. (TPT)	Thailand	62,640	2,583	0.0	52.2
Tohoku Pioneer (Vietnam) Co., Ltd.(TPV)	Vietnam	51,705	813	0.0	30.3
Shanghai Pioneer Speakers Co., Ltd. (SPS)	China	32,380	716	0.0	26.0
Pioneer Technology (Shanghai) Co., Ltd. (PSG)	China	176,783	292	39.0	55.4
Pioneer Technology (Dongguan) Co., Ltd. (PTD)	China	71,744	660	0.0	239.8
Dongguan Monetech Electronic Co., Ltd. (MND)	China	12,331	86	0.0	38.4
Mogami Dongguan Electronics Co.,Ltd. (MDE)	China	8,562	150	0.6	258.2

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

Period covered

The period covered by the data is FY2021(April 2020-March2021).

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 2021.)

For the scope of data aggregation reports before 2021, please refer to "Pioneer Group Environmental Data" for that year.

* The data result includes some data of Pioneer Micro Technology Corporation.

Japan

Pioneer Corporation Headquarters	Pioneer Service Network Corporation World Parts Center / Repair Technical Group
Kawagoe Plant	Pioneer System Technologies Corporation
Tohoku Pioneer Corporation Headquarters	Pioneer Finetech Corporation Increment P Corporation
Yonezawa Plant	Headquarters
Moqami Denki Corporation	Tohoku Design Center

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 Technology (Malaysia) Sdn. Bhd. (MPT)	Pioneer Technology (Dongguan) Co., Ltd. (PTD)
Pioneer Manufacturing (Thailand) Co., Ltd. (PTM)	Pioneer (HK) Ltd. (PHK)
Tohoku Pioneer (Thailand) Co., Ltd. (TPT)	Shanghai Pioneer Speakers Co., Ltd. (SPS)
Tohoku Pioneer (Vietnam) Co., Ltd. (TPV)	Mogami Dongguan Electronics Co.,Ltd. (MDE)