

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**4 Nox 2.8**4 Dust 0.08**4 | 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)

| | | 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 : tonnes CO₂)

| | 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 | 0.0 | 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 |
| | | 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 |
| Company qualification | 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 | 2.2 |
| 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 | 28 | 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 Monotech Electronic Co., Ltd. (MND) | China | 12,331 | 86 | 0.0 | 38.4 |
| Moqami 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–March 2021).
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 Kawagoe Plant | Pioneer Service Network Corporation World Parts Center / Repair Technical Group Pioneer System Technologies Corporation |
| Tohoku Pioneer Corporation Headquarters Yonezawa Plant | Pioneer Finetech Corporation Increment P Corporation Headquarters |
| Moqami Denki Corporation | Tohoku Design Center |

THE AMERICAS

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

Europe

| |
|-------------------------|
| Pioneer Europe NV (PEE) |
|-------------------------|

ASIA & OCEANIA

| | |
|--|---|
| Pioneer Electronics Asiacentre Pte. Ltd. (PAC) Pioneer Technology (Malaysia) Sdn. Bhd. (MPT) Pioneer Manufacturing (Thailand) Co., Ltd. (PTM) Tohoku Pioneer (Thailand) Co., Ltd. (TPT) Tohoku Pioneer (Vietnam) Co., Ltd. (TPV) | Pioneer China Holding Co., Ltd. (PCH) Pioneer Technology (Dongguan) Co., Ltd. (PTD) Pioneer (HK) Ltd. (PHK) Shanghai Pioneer Speakers Co., Ltd. (SPS) Moqami Dongguan Electronics Co., Ltd. (MDE) |
|--|---|