

Environmental Data Book 2021



Material flow

| | | Environm | ent Index | Value | Unit |
|---------|---------------------|-----------------------------|---|----------------|----------------|
| | Raw | Other than or etc.)(non-cor | 173,989 | ton | |
| | materials | ★Organic sol | vents purchased | 47,648 | ton |
| | | ★Electricity p | ourchased (exc. Green electricity) | 692,193 | MWh |
| | | ★Green elect | ricity purchased | 83,559 | MWh |
| | | ★Solar electr | icity generated & used | 1,549 | MWh |
| | | ★Steam purc | chased | 4,211 | ton |
| Inputs | Francisco | ★Hot water p | purchased | 4,406 | GJ |
| inputs | Energies | ★Diesel oil / | A-type heavy oil purchased | 2,804 | kL |
| | | ★LPG purcha | ised | 1,309 | ton |
| | | ★Natural gas | 2,682,693 | GJ | |
| | | ★LNG purcha | 34,472 | ton | |
| | | ★Gasoline ar | 12,812 | GJ | |
| | Water withdrawal | ★Municipal s | 3,637,443 | m ³ | |
| | | ★Ground wat | 2,181,513 | m ³ | |
| | Atmospheric | spheric ★Organic solvents* | | 1,951 | ton |
| | release | ★CO ₂ | | 684,774 | ton |
| | | ★Amount dis | sposed | 128,962 | ton |
| | Wasto oto | | ★Amount recycled | 107,105 | ton |
| Outputs | waste etc. | Waste etc. Disposal | Final disposal amount(landfill or incineration without energy recovery) | 21,857 | ton |
| | | ★Amount dis | scharged | 4,745,810 | m ³ |
| | Water | | Public water areas | 3,055,337 | m ³ |
| | discharged | Discharge to | Sewage lines | 1,690,473 | m ³ |
| | | ★Pollutants(| 9.0 | ton | |
| | | ★Organic sol | 15,607 | ton | |
| C | Others | ★Water recy | cled | 1,073,157 | m ³ |
| | | Water consur | ned | 1,073,146 | m ³ |



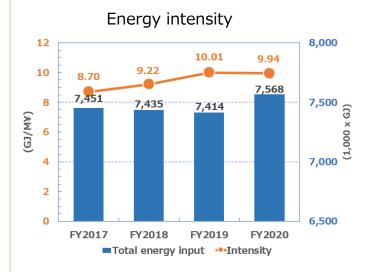
Environmental efficiency(to sales)

Energy intensity

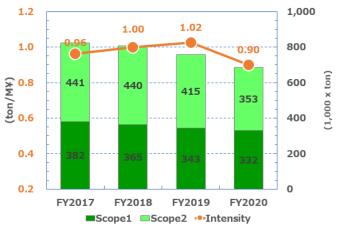
| Item | Unit | FY2017 | FY2018 | FY2019 | FY2020 |
|--------------------|-------|-----------|-----------|-----------|------------|
| Total energy input | GJ | 7,450,666 | 7,434,946 | 7,413,954 | 7,567,972★ |
| Sales | M¥ | 856,262 | 806,495 | 741,018 | 761,320 |
| Intensity | GJ/M¥ | 8.70 | 9.22 | 10.01 | 9.94 |

CO₂ emissions intensity

| Item | Unit | FY2017 | FY2018 | FY2019 | FY2020 |
|-----------------------|--------|---------|---------|---------|----------|
| CO2 emissions(Scope1) | ton | 381,505 | 365,138 | 343,471 | 332,235★ |
| CO2 emissions(Scope2) | ton | 441,311 | 440,377 | 415,432 | 352,539★ |
| CO2 emissions(Total) | ton | 822,816 | 805,515 | 758,903 | 684,774 |
| Sales | M¥ | 856,262 | 806,495 | 741,018 | 761,320 |
| Intensity | ton/M¥ | 0.96 | 1.00 | 1.02 | 0.90 |



CO₂ emissions intensity





Change in environment indexes

1. Basis data

| □Total energy input Unit: G | | | | | |
|-----------------------------|-----------|-----------|-----------|------------|--|
| Country/Region | FY2017 | FY2018 | FY2019 | FY2020 | |
| Japan | 4,549,631 | 4,573,768 | 4,626,270 | 4,807,385 | |
| The Americas | 531,691 | 499,856 | 449,438 | 391,514 | |
| Europe | 475,170 | 484,678 | 473,469 | 482,878 | |
| Asia and Oceania | 1,894,174 | 1,876,644 | 1,864,776 | 1,886,195 | |
| Total | 7,450,666 | 7,434,946 | 7,413,954 | 7,567,972★ | |

| CO2 emissions(Scope | Unit: ton | | | |
|---------------------|-----------|---------|---------|---------|
| Country/Region | FY2017 | FY2018 | FY2019 | FY2020 |
| Japan | 512,355 | 494,404 | 463,724 | 399,809 |
| The Americas | 38,484 | 40,465 | 34,827 | 30,233 |
| Europe | 47,093 | 44,902 | 38,736 | 35,639 |
| Asia and Oceania | 224,884 | 225,744 | 221,617 | 219,093 |
| Total | 822,816 | 805,515 | 758,903 | 684,774 |

| □Total waste etc. disp | Unit: ton | | | |
|------------------------|-----------|---------|---------|----------|
| Country/Region | FY2017 | FY2018 | FY2019 | FY2020 |
| Japan | 68,214 | 67,258 | 65,802 | 70,840 |
| The Americas | 9,468 | 10,103 | 8,926 | 7,868 |
| Europe | 9,789 | 9,530 | 8,703 | 8,901 |
| Asia and Oceania | 40,955 | 40,403 | 39,577 | 41,352 |
| Total | 128,426 | 127,294 | 123,008 | 128,962★ |

| Percentage of waste etc. recycled Unit: % | | | | |
|---|--------|--------|--------|--------|
| Country/Region | FY2017 | FY2018 | FY2019 | FY2020 |
| Japan | 98 | 99 | 98 | 99 |
| The Americas | 24 | 17 | 21 | 29 |
| Europe | 97 | 97 | 93 | 87 |
| Asia and Oceania | 50 | 42 | 56 | 65 |
| Total | 77 | 75 | 79 | 83★ |

*1 Scope2 is calculated on a market basis.

| □CO₂ emissions(Scope3)(non-consolidated) Unit: ton | | | | |
|---|---------|---------|---------|----------|
| Category | FY2017 | FY2018 | FY2019 | FY2020 |
| Purchased goods and services ^{*2} | 396,698 | 389,128 | 325,581 | 499,853★ |
| Capital goods | 57,791 | 85,852 | 106,991 | 72,710 |
| Fuel-and-energy- related activities(not included in Scope1 or 2) | 44,380 | 44,447 | 58,260 | 61,481★ |
| Upstream transportation and distribution | 9,789 | 8,809 | 7,594 | 7,594 |
| Waste generated in operations | 36,103 | 34,548 | 27,428 | 29,530★ |
| Business travel | 790 | 801 | 812 | 833 |
| Employee commuting | 2,515 | 2,554 | 2,599 | 2,592 |
| Upstream leased assets | - | - | - | - |
| Downstream transportation and distribution | - | - | - | - |
| Processing of sold products | - | - | - | - |
| Use of sold products | - | - | - | - |
| End of life treatment of sold products | 74,536 | 71,579 | 53,061 | 61,509★ |
| Downstream leased assets | - | - | - | - |
| Franchises | - | - | - | - |
| Investments | - | - | - | - |
| Total *2 From FY2020, the emi | 622,602 | 637,717 | 582,326 | 736,102 |

*2 From FY2020, the emission intensity applied to Scope3 Category 1 is changed from JEMAI CFP Program Basic Database ver. 1.01 to IDEA v2.3 (For Calculating Supply Chain Greenhouse Gas Emissions). Scope 3 Category 1 in FY2020 calculated using the emission intensity berore the change is 340,177t CO2.

The main factor of the difference of the amounts is the difference in the emission intensity applied to the procured polyester film; previously, we used the emission intensity for the polyester film that covered only manufacturing stage, but it is changed to one that covers from the raw material mining stage to the polyester film manufacturing stage to the polyester film. manufacturing stage.

| □Hazardous waste disp | Unit: ton | | | |
|-----------------------|-----------|--------|--------|---------|
| Country/Region | FY2017 | FY2018 | FY2019 | FY2020 |
| Japan | 9,416 | 8,297 | 9,566 | 10,840 |
| The Americas | 1,186 | 1,092 | 1,249 | 1,983 |
| Europe | 620 | 697 | 1,131 | 1,034 |
| Asia and Oceania | 15,184 | 14,637 | 12,820 | 13,134 |
| Total | 26,406 | 24,722 | 24,767 | 26,991★ |

| Water withdrawal, com | Unit: m ³ | | | |
|-----------------------|----------------------|-----------|-----------|------------|
| Item | FY2017 | FY2018 | FY2019 | FY2020 |
| Withdrawal | 6,959,266 | 6,835,869 | 6,417,173 | 5,818,956★ |
| Comsumed | 1,096,709 | 1,170,273 | 1,202,623 | 1,073,146 |
| Discharged | 5,862,557 | 5,665,596 | 5,214,550 | 4,745,810 |

| Pollutants(COD) to p | Unit: ton | | | |
|----------------------|-----------|------|------|------|
| Country/Region | FY2020 | | | |
| Japan | 9.3 | 9.7 | 11.6 | 8.5 |
| The Americas | 0 | 0 | 0 | 0 |
| Europe | 0 | 0 | 0 | 0 |
| Asia and Oceania | 2.4 | 3.1 | 2.2 | 0.5 |
| Total | 11.7 | 12.8 | 13.8 | 9.0★ |

| □Atmospheric release*3 | Unit: ton | | | |
|------------------------|-----------|--------|--------|--------|
| Item | FY2017 | FY2018 | FY2019 | FY2020 |
| Dust | 2.36 | 6.54 | 2.06 | 1.93★ |
| NOx | 224.8 | 161.0 | 154.7 | 138.4★ |
| SOx | 0.2 | 0.3 | 0.3 | 0.3★ |
| Organic solvents | 1,509 | 1,391 | 2,004 | 1,951 |

 $\ast 3$ Dust, NOx, SOx are non-consolidated and organic solvents are consolidated.

*) Due to rounding, sum of values by country or region may not equal total value.



Change in environment indexes

2. Detaild data related to climate change

| CO2 emissions(Scope1) Ur | | | | | | | | |
|--------------------------|---------|---------|---------|----------|--|--|--|--|
| Country/Region | FY2017 | FY2018 | FY2019 | FY2020 | | | | |
| Japan | 250,636 | 236,388 | 225,578 | 220,484 | | | | |
| The Americas | 14,407 | 16,282 | 14,414 | 12,278 | | | | |
| Europe | 42,857 | 40,809 | 33,756 | 28,825 | | | | |
| Asia and Oceania | 73,605 | 71,659 | 69,724 | 70,648 | | | | |
| Total | 381,505 | 365,138 | 343,471 | 332,235★ | | | | |

| Total energy input(Scope1+2) Unit: MWh | | | | | | | | |
|--|-----------|-----------|-----------|-----------|--|--|--|--|
| Country/Region | FY2017 | FY2018 | FY2019 | FY2020 | | | | |
| Japan | 1,263,786 | 1,270,491 | 1,285,075 | 1,335,385 | | | | |
| The Americas | 147,692 | 138,849 | 124,844 | 108,754 | | | | |
| Europe | 131,992 | 134,633 | 131,519 | 134,133 | | | | |
| Asia and Oceania | 526,159 | 521,290 | 517,993 | 523,943 | | | | |
| Total | 2,069,629 | 2,065,263 | 2,059,432 | 2,102,214 | | | | |

| CO2 emissions(So | Unit: ton | | | |
|------------------|-----------|--------|--------|----------|
| Segment | FY2017 | FY2018 | FY2019 | FY2020 |
| Industrial Tape | | | | 178,450 |
| Optronics | | | | 131,537 |
| Life Science | | | | 8,876 |
| Others | | | | 13,372 |
| Total | | | | 332,235★ |

| Total energy input(Scope1) | | | | | | | |
|----------------------------|--------|--------|--------|-----------|--|--|--|
| Country/Region | FY2017 | FY2018 | FY2019 | FY2020 | | | |
| Japan | | | | 890,575 | | | |
| The Americas | | | | 66,604 | | | |
| Europe | | | | 91,778 | | | |
| Asia and Oceania | | | | 272,973 | | | |
| Total | | | | 1,321,930 | | | |

| CO2 emissions(Scope2: location base) Unit: ton | | | | □Total energy input(Scope2: | Unit: MWh | | | | |
|--|--------|--------|--------|-----------------------------|------------------|--------|--------|--------|---------|
| Country/Region | FY2017 | FY2018 | FY2019 | FY2020 | Country/Region | FY2017 | FY2018 | FY2019 | FY2020 |
| Japan | | | | 205,502 | Japan | | | | 395,449 |
| The Americas | | | | 16,689 | The Americas | | | | 42,150 |
| Europe | | | | 13,623 | Europe | | | | 15,150 |
| Asia and Oceania | | | | 152,499 | Asia and Oceania | | | | 243,977 |
| Total | | | | 388,312 | Total | | | | 696,725 |

| CO2 emissions(Sc | ope2: market | base) | | Unit: ton | □Total energy input(Scope2: | renewable) | | | Unit: MWh |
|------------------|--------------|---------|---------|-----------|-----------------------------|------------|--------|--------|-----------|
| Country/Region | FY2017 | FY2018 | FY2019 | FY2020 | Country/Region | FY2017 | FY2018 | FY2019 | FY2020 |
| Industrial Tape | 261,719 | 258,016 | 238,146 | 179,324 | Japan | | | | 49,361 |
| Optronics | 24,077 | 24,183 | 20,413 | 17,955 | The Americas | | | | 0 |
| Life Science | 4,236 | 4,093 | 4,980 | 6,815 | Europe | | | | 27,205 |
| Others | 151,279 | 154,085 | 151,893 | 148,445 | Asia and Oceania | | | | 6,993 |
| Total | 441,311 | 440,377 | 415,432 | 352,539★ | Total | | | | 83,559 |

| CO2 emissions(Scope2: location base) Unit: ton | | | | Unit: ton | □Total energy input(Scope1+ | 2: renewable |) | | Unit: MWh |
|--|--------|--------|--------|-----------|-------------------------------|--------------|--------|--------|-----------|
| Segment | FY2017 | FY2018 | FY2019 | FY2020 | Item | FY2017 | FY2018 | FY2019 | FY2020 |
| Industrial Tape | | | | 117,530 | Electricity purchased | | | | 83,559 |
| Optronics | | | | 242,004 | Fossil fuels consumed | | | | 0 |
| Life Science | | | | 11,724 | Steam/hot water purchased | | | | 0 |
| Others | | | | 17,054 | Solar electricity generated & | | | | 1 540 |
| Total | | | | 388,312 | used | | | | 1,549 |
| | | | | | Total | | | | 85,108 |

| CO2 emissions(Scope2: market base) Unit: ton | | | | _ | Total energy input(Scope1+3 | | Unit: MWh | | | |
|--|--------|--------|--------|----------|-----------------------------|---------------------------|-----------|--------|--------|-----------|
| Segment | FY2017 | FY2018 | FY2019 | FY2020 | | Item | FY2017 | FY2018 | FY2019 | FY2020 |
| Industrial Tape | | | | 97,923 | | Electricity purchased | | | | 692,193 |
| Optronics | | | | 227,688 | | Fossil fuels consumed | | | | 1,320,381 |
| Life Science | | | | 13,834 | | Steam/hot water purchased | | | | 4,533 |
| Others | | | | 13,094 | | Total | | | | 2,017,106 |
| Total | | | | 352,539★ | | | | | | |

*) Due to rounding, sum of values by country or region may not equal total value.



Change in environment indexes

| □Fossil fuels consumed | Unit: MWh | | | |
|----------------------------------|-----------|--------|--------|-----------|
| Item | FY2017 | FY2018 | FY2019 | FY2020 |
| Diesel oil / A-type heavy oil | | | | 30,332 |
| LPG | | | | 18,476 |
| Natural gas | | | | 745,192 |
| LNG | | | | 522,821 |
| Gasoline and kerosene | | | | 3,559 |
| Total | | | | 1,320,381 |

| Energy produced in-h | Unit: MWh | | | | | | | |
|----------------------|-----------|----------------------|--|-----------|--|--|--|--|
| Item | FY2017 | FY2017 FY2018 FY2019 | | | | | | |
| Electricity | | | | 77,905 | | | | |
| Heat | | | | 33,891 | | | | |
| Steam | | | | 1,268,014 | | | | |
| Cooling | | | | 0 | | | | |
| Total | | | | 1,379,810 | | | | |

| Renewable power pro | Unit: MWh | | | | | | | | |
|---------------------|---------------------------|--|--|--------|--|--|--|--|--|
| Item | Item FY2017 FY2018 FY2019 | | | | | | | | |
| Hydropower | | | | 49,044 | | | | | |
| Solar power | | | | 805 | | | | | |
| Wind power | | | | 26,276 | | | | | |
| Low CO2 energy mix | | | | 7,434 | | | | | |
| Total | | | | 83,559 | | | | | |

2. Detaild data related to water risk

| □Water withdrawal by o | Unit: ML | | |
|------------------------|----------|--------|-------|
| Country/Region | FY2017 | FY2020 | |
| Japan | | | 3,920 |
| The Americas | | | 304 |
| Europe | | | 81 |
| Asia and Oceania | | | 1,515 |
| Total | | | 5,819 |

| □Water consumed by country/region | | | Unit: ML | |
|-----------------------------------|--------|--------|----------|--------|
| Country/Region | FY2017 | FY2018 | FY2019 | FY2020 |
| Japan | | | | 609 |
| The Americas | | | | 2 |
| Europe | | | | 56 |
| Asia and Oceania | | | | 405 |
| Total | | | | 1,073 |

| □Water withdrawal by source | | | Unit: ML | |
|---|--------|--------|----------|--------|
| Item | FY2017 | FY2018 | FY2019 | FY2020 |
| Municipal supply water/ Industrial water | | | | 3,637 |
| Ground water | | | | 2,182 |
| Total | | | | 5,819 |

| □Water discharged by country/region | | | | Unit: ML |
|-------------------------------------|--------|--------|--------|----------|
| Country/Region | FY2017 | FY2018 | FY2019 | FY2020 |
| Japan | | | | 3,311 |
| The Americas | | | | 301 |
| Europe | | | | 24 |
| Asia and Oceania | | | | 1,109 |
| Total | | | | 4,746 |

| □Water discharged by destination | | | Unit: ML | |
|----------------------------------|--------|--------|----------|--------|
| Item | FY2017 | FY2018 | FY2019 | FY2020 |
| Public water areas | | | | 3,055 |
| Sewage lines | | | | 1,690 |
| Total | | | | 4,746 |

 $\ensuremath{^*}\xspace$) Due to rounding, sum of values by country or region may not equal total value.



Environmental Data Calculation Standards

To enhance the reliability of its disclosed information, Nitto Group has such information assured by a third-party organization. In this Environmental Data Book 2021, environmental performance indicators marked with \star have been assured accordingly.

1. Period and Organizations Covered by Environmental Data

| FY | Period | Organizations Covered (No. of companies) | Organizations Covered (% of production unit) |
|------|--------------------------|---|---|
| 2020 | April 2020 to March 2021 | 33 | 98% |

2. Calculation methods

2-1. Energy, CO₂, NOx and SOx related Data **Calculation method** Total Energy Input Total Energy Input = Energy purchased, and Solar electricity generated & used x Unit: GJ Heat value per unit 3.6MJ/kWh is adopted as the heat value per unit value of electric power. Energy purchased includes "Green electricity purchased". Heat values per unit of fuels are based on " Act on Rationalizing Energy Use enforcement regulations ". Electricity purchased Total amount of purchased electricity from third parties Unit: MWh (except green electricity) Green electricity purchased Total amount of purchased green electricity from third parties Unit: MWh Solar electricity generated & used Total amount of solar electricity generated & used by Nitto Gr. Unit: MWh Steam purchased Total amount of purchased steam from third parties Unit: ton Hot water purchased Total amount of purchased hot water from third parties Unit: GJ Diesel oil / A-type heavy Total amount of purchased Diesel oil, gas oil and A-type heavy oil (Japan) from oil purchased third party Unit: kL LPG purchased Total amount of purchased Liquefied petroleum gas from third parties Unit: ton Natural gas Total amount of purchased natural gas from third parties purchased Unit: GJ LNG purchased Total amount of purchased Liquefied natural gas from third parties Unit: ton



| Gasoline and | Total | amount of purchas | ed gasoline & kerosene from third parties | |
|---------------------------|--|--|--|--|
| kerosene purchased | | | | |
| Unit: GJ | | | | |
| CO ₂ emissions | The calculation method is based on "A Corporate Accounting and Reporting | | | |
| Scope1:Direct emissions | Stand | dard Revised Editior | " issued by The Greenhouse Gas Protocol. | |
| Scope2:Energy indirect | | | | |
| emissions | Emis | Emission coefficient | | |
| Unit: ton | a) Er | a) Energy(fuel, steam): | | |
| | Coeff | Coefficient stipulated in "Act on Promotion of Global Warming Countermeasures" | | |
| | b) Er | ergy(electric powe | r): | |
| | Emis | sion coefficients by | electric power companies or individual region's coefficients | |
| | provi | ded by "IEA, CO2 | emissions from fuel combustion", "EPA, Emissions & | |
| | Gene | ration Resource I | ntegrated Database (eGRID)" or "Ministry of Natura | |
| | Reso | urces and Environm | nent of Vietnam" | |
| | c)Ma | terials burned by Ni | itto Gr. (solvent): | |
| | Coeff | icient decided by N | itto assuming combustion reaction of solvent | |
| | d) Ma | aterials burned by N | litto Gr. (waste): | |
| | Coeff | icient stipulated in | "Act on Promotion of Global Warming Countermeasures" | |
| CO ₂ emissions | | | I is based on The Basic Guidelines on Accounting for | |
| Scope3:Other indirect | Greenhouse Gas Emissions throughout the Supply Chain ver.2.3 (Ministry of the Environment and Ministry of Economy, Trade and Industry in Japan). | | | |
| emissions | | | based on the following database: | |
| Unit: ton | | | t Database for the Purpose of Calculating the Greenhouse | |
| | - | - | s of Organizations throughout the supply Chain ver. 3.1 | |
| | | | culating Supply Chain Greenhouse Gas Emissions) | |
| | | Purchased goods | Σ {Weight of purchased material by type x CO ₂ | |
| | 1 | and services | emissions per unit} | |
| | 2 | Capital goods | Equipment investment amount x CO ₂ emissions per unit | |
| | 3 | Fuel-and energy-related activities | Σ {Amount of purchased energy by type x CO ₂ emissions per unit} | |
| | 4 | Upstream transportation and distribution | Based on the Act on the Rationalizing Energy Use | |
| | 5 | Waste generated in operations | Σ {Amount of waste discharged by type x CO ₂ emissions per unit} | |
| | 6 | Business travel | Number of employees x CO ₂ emissions per unit | |
| | 7 | Employee | Σ {Number of employees by site x Number of | |
| | | commuting | employees x Annual operating days} | |
| | 8 | Upstream leased assets | Included in Scope1 & 2 | |



| | 9 | Downstream transportation and distribution | Included in "Upstream transportation and distribution" |
|--|---|--|---|
| | 1 | 0 Processing of sold products | Not calculated (because our products are intermediate materials and it is difficult to recognize processes of our customers.) |
| | 1 | 1 Use of sold products | Not calculated (because our products are intermediate materials and it is difficult to recognize processes of our customer.) |
| | 1 | End-of-lifetreatment ofsold products | Shipped weight (plastic product) x CO ₂ emissions per unit |
| | 1 | 3 Downstream leased asset | N/A (no leased asset) |
| | 1 | 4 Franchises | N/A (no franchises) |
| | 1 | 5 Investments | N/A (We are not investors or financial providers.) |
| Dust atmospheric emissions Unit: ton | | ist atmospheric emiss nount of exhaust gas | sions = Concentration of dust contained in exhaust gas x |
| NOx atmospheric emissions Unit: ton | NOx atmospheric emissions = Concentration of nitrogen oxides contained in exhaust gas x Amount of exhaust gas | | |
| SOx atmospheric emissions Unit: ton | SOx atmospheric emissions = Concentration of sulfur oxides contained in exhaust gas x Amount of exhaust gas | | |

2-2. Water-related

| Data | Calculation method |
|-------------------------|--|
| Water withdrawal | Sum of municipal cupply water industrial water and ground water |
| Unit: m3 | Sum of municipal supply water, industrial water and ground water. |
| Municipal supply | Total amount of water of quality that can be used for household use, and water |
| water/ Industrial water | of quality not suitable for household use purchased from outside the Nitto Gr. |
| Unit: m3 | of quality not suitable for household use purchased from outside the Nitto Gi. |
| Ground water | Total amount of ground water pumped by Nitto Gr. |
| Unit: m3 | Total amount of ground water pumped by Nitto Gi. |
| Water recycled | Total amount of rainwater stored for reuse and recycled water within the Nitto |
| Unit: m3 | Gr. |
| | *Results of Nitto Denko Corp. Onomichi and Kameyama Plants, Nitto Denko Fine |
| | Circuit Technology(Shenzhen) Co., Ltd. |
| Water discharged | Total amount of water discharged to public water areas, sewage lines and the |
| Unit: m3 | others from Nitto Gr. Some sites, which do not measure amount of water |
| | discharged, regard amount of water withdrawal as amount of water discharged. |
| Pollutants (COD) /COD | Pollutants(COD) = Concentration of chemical oxygen demand (COD) contained |
| Discharged | in water discharged x Amount water discharged |



| Unit: ton | This data covers only sites which must measure COD according to local rules. |
|----------------|--|
| Water consumed | |
| Unit:m3 | Deduct amount of water discharged from water withdrawal |

2-3. Organic solvents-related

| Data | Calculation method |
|------------------------|--|
| Amount purchased | Total amount of purchased organic solvents (see below) from third parties: |
| Unit: ton | Toluene, Ethyl acetate, Cactus solvent, Dimethylformamide, Isopropyl alcohol, |
| | Hexane |
| | *Until FY2017 it partially included purchased organic solvents other than the |
| | above ones, but from FY2018 it was limited to the above ones. |
| Amount recycled | Total amount of refined organic solvents for the purpose of reuse by Nitto Gr. |
| Unit: ton | |
| Atmospheric release of | Atmospheric release of organic solvents (see below) = Σ {Concentration of |
| organic solvents | organic solvent by type x Amount of exhaust gas}. Some sites use estimated |
| Unit: ton | figures calculated from purchased solvents. |
| | Toluene, Ethyl acetate, Cactus solvent, Dimethylformamide, Isopropyl alcohol, |
| | Hexane |
| | *Until FY2017 it was partially included organic solvents other than the above |
| | ones, but from FY2018 it was limited to the above ones. |

2-4. Waste-related

| 2-4. Waste-Telateu | |
|---|---|
| Data | Calculation method |
| Amount disposed / Total waste etc. disposed Unit: ton | Total amount of waste (including hazardous waste) and valuable resources that are treated by external experts' service. |
| Amount recycled Unit: ton | Amount recycled = Total amount of waste which is recycled, reused or incinerated for energy recovery + Total amount of valuable resources |
| Percentage of waste etc. recycled Unit: % | Percentage of waste etc. recycled = Amount recycled \div Total waste etc. disposed |
| Hazardous waste disposed Unit: ton | Total amount of hazardous waste regulated by each country and is treated by external experts' service. |



Third-Party Assurance

KPMG

Independent Assurance Report

To President, CEO and COO of Nitto Denko Corporation

We were engaged by Nitto Denko Corporation (the "Company") to undertake a limited assurance engagement of the environmental performance indicators marked with \star (the "Indicators") for the period from April 1, 2020 to March 31, 2021 included in its Environmental Data Book 2021 (the "Data Book") for the fiscal year ended March 31, 2021.

The Company's Responsibility

The Company is responsible for the preparation of the Indicators in accordance with its own reporting criteria (the "Company's reporting criteria"), as described in the Data Book.

Our Responsibility

Our responsibility is to express a limited assurance conclusion on the Indicators based on the procedures we have performed. We conducted our engagement in accordance with the 'International Standard on Assurance Engagements (ISAE) 3000, Assurance Engagements other than Audits or Reviews of Historical Financial Information' and the 'ISAE 3410, Assurance Engagements on Greenhouse Gas Statements' issued by the International Auditing and Assurance Standards Board. The limited assurance engagement consisted of making inquiries, primarily of persons responsible for the preparation of information presented in the Data Book, and applying analytical and other procedures, and the procedures performed vary in nature from, and are less in extent than for, a reasonable assurance engagement. The level of assurance provided is thus not as high as that provided by a reasonable assurance engagement. Our assurance procedures included:

- Interviewing the Company's responsible personnel to obtain an understanding of its policy for preparing the Data Book and reviewing the Company's reporting criteria.
- Inquiring about the design of the systems and methods used to collect and process the Indicators.
- Performing analytical procedures on the Indicators.
- Examining, on a test basis, evidence supporting the generation, aggregation and reporting of the Indicators in conformity with the Company's reporting criteria, and recalculating the Indicators.
- Making inquiries and reviewing materials including documented evidence of two of the Company's factories selected on the basis of a risk analysis, as alternative procedures to site visits.
- Evaluating the overall presentation of the Indicators.

Conclusion

Based on the procedures performed, as described above, nothing has come to our attention that causes us to believe that the Indicators in the Data Book are not prepared, in all material respects, in accordance with the Company's reporting criteria as described in the Data Book.

Our Independence and Quality Control

We have complied with the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants, which includes independence and other requirements founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior. In accordance with International Standard on Quality Control 1, we maintain a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

WIMG Aga Sustitute Co., Ind.

KPMG AZSA Sustainability Co., Ltd. Osaka, Japan June 28, 2021