

Data Compilation

Reporting Period:

January 1 to December 31, 2018

Table 1 SOx Emissions

DIC Group (In Japan)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|------|------|------|------|------|------|------|------|------|
| SOx (ton) | 63 | 82 | 64 | 58 | 46 | 38 | 42 | 14 | 12 |
| SOx emissions per unit of production (g/ton) | 60 | 83 | 69 | 62 | 51 | 43 | 46 | 15 | 13 |

Note: SOx emissions per unit of production is the volume of SOx emitted per ton of production.

Table 2 NOx Emissions

DIC Group (In Japan)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|------|------|------|------|------|------|------|------|------|
| NOx (ton) | 203 | 194 | 205 | 186 | 185 | 177 | 156 | 186 | 202 |
| NOx emissions per unit of production (g/ton) | 194 | 197 | 221 | 198 | 204 | 199 | 173 | 200 | 219 |

Note: NOx emissions per unit of production is the volume of NOx emitted per ton of production.

Table 3 COD (chemical oxygen demand) Emissions in Wastewater

DIC Group (In Japan)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|------|------|------|------|------|------|------|------|------|
| COD (ton) | 394 | 483 | 473 | 495 | 530 | 844 | 831 | 783 | 810 |
| COD emissions per unit of production (g/ton) | 376 | 491 | 510 | 527 | 585 | 945 | 920 | 842 | 876 |

Note: COD emissions per unit of production is the volume of COD emitted per ton of production.

Calculations for sites having no COD emissions data are based on biological oxygen demand (BOD) emissions.

Table 4 Volume of Industrial Waste Disposed of as Landfill

DIC Group (In Japan)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Volume disposed of as landfill (tons) | 207 | 158 | 106 | 86 | 80 | 139 | 183 | 148 | 204 |
| Volume disposed of as landfill emissions per unit of production (kg/ton) | 0.197 | 0.161 | 0.114 | 0.092 | 0.088 | 0.156 | 0.202 | 0.159 | 0.221 |

Note: Industrial waste disposed of as land II refers to the volume of industrial waste buried in land II sites after reduction (through desiccation or incineration) or directly.

DIC Group (Overseas)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|------|------|--------|--------|--------|--------|--------|--------|--------|
| Volume disposed of as landfill (tons) | - | - | 31,271 | 22,059 | 23,539 | 27,230 | 24,739 | 22,832 | 24,976 |
| Volume disposed of as landfill emissions per unit of production (kg/ton) | - | - | 27 | 19 | 23 | 27 | 24 | 16 | 24 |

DIC Group (Global)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|------|------|--------|--------|--------|--------|--------|--------|--------|
| Volume disposed of as landfill (tons) | - | - | 31,377 | 22,145 | 23,619 | 27,230 | 24,922 | 22,980 | 25,180 |
| Volume disposed of as landfill emissions per unit of production (kg/ton) | - | - | 13 | 11 | 12 | 14 | 13 | 12 | 13 |

Table 5 Energy Consumption

* Energy consumption per unit of production is calculated using adjusted production volume (parentcompany in Japan only.)

(Notification submitted to Japan's Ministry of Economy, Trade and Industry)

DIC Group (In Japan)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Energy consumption (1,000GJ) | 5,112 | 5,045 | 4,408 | 4,399 | 4,337 | 4,256 | 4,314 | 4,314 | 4,255 |
| Energy consumption per unit of production(GJ/t) | 4.447 | 4.574 | 4.347 | 4.170 | 4.147 | 3.714 | 4.010 | 3.914 | 3.904 |

Note: Energy consumption per unit of production is the volume of energy consumed per ton of production.

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Energy consumption (MWH) | 994,989 | 989,845 | 847,529 | 836,909 | 834,168 | 845,444 | 875,670 | 851,201 | 833,287 |
| Energy consumption per unit of production (MWH/t) | 0.903 | 0.897 | 0.836 | 0.793 | 0.798 | 0.738 | 0.814 | 0.772 | 0.765 |

Note: Energy consumption per unit of production is the volume of energy consumed per ton of production.

DIC Group (Overseas)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Energy consumption (1,000GJ) | 7,540 | 6,771 | 7,356 | 8,090 | 6,789 | 6,844 | 7,064 | 6,740 | 6,647 |
| Energy consumption per unit of production(GJ/t) | 5.553 | 6.365 | 6.317 | 6.999 | 6.549 | 6.764 | 6.746 | 6.469 | 6.353 |

Note: Energy consumption per unit of production is the volume of energy consumed per ton of production.

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Energy consumption (MWH) | 1,308,114 | 1,184,148 | 1,260,671 | 1,371,891 | 1,140,960 | 1,150,904 | 1,187,553 | 1,148,469 | 1,147,018 |
| Energy consumption per unit of production (MWH/t) | 0.963 | 1.113 | 1.083 | 1.187 | 1.101 | 1.137 | 1.134 | 1.102 | 1.096 |

Note: Energy consumption per unit of production is the volume of energy consumed per ton of production.

DIC Group (Global)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Energy consumption (1,000GJ) | 12,652 | 11,816 | 11,765 | 12,489 | 11,127 | 11,100 | 11,379 | 11,054 | 10,902 |
| Energy consumption per unit of production(GJ/t) | 5.046 | 5.453 | 5.400 | 5.649 | 5.343 | 5.144 | 5.360 | 5.156 | 5.104 |
| Energy consumption index | - | - | - | 100 | 95 | 91 | 95 | 91 | 90 |

Note: Energy consumption per unit of production is the volume of energy consumed per ton of production.

The energy consumption index compares the change in consumption per unit of production with scal 2013 as the base year.

| Fiscal year | 2013(Base year) | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Energy consumption (MWH) | | 2,303,103 | 2,173,993 | 2,108,200 | 2,208,800 | 1,975,129 | 1,996,349 | 2,063,223 | 1,999,670 | 1,980,305 |
| Energy consumption per unit of production (MWH/t) | | 0.918 | 1.003 | 0.968 | 0.999 | 0.948 | 0.925 | 0.972 | 0.933 | 0.927 |
| Energy consumption index | | - | - | - | 100 | 95 | 93 | 97 | 93 | 93 |

Note: Energy consumption per unit of production is the volume of energy consumed per ton of production

The energy consumption index compares the change in consumption per unit of production with scal 2013 as the base year.

Table 6 CO2 Emissions

* CO2 emissions per unit of production is calculated using adjusted production volume (parentcompany in Japan only.)

(Notification submitted to Japan's Ministry of Economy, Trade and Industry)

DIC Group (In Japan)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| CO2 emissions (1,000 tons) | 260,235 | 258,429 | 229,718 | 244,377 | 255,114 | 250,720 | 242,194 | 244,395 | 231,820 |
| CO2 emissions per unit of production (kg/ton) | 226 | 234 | 226 | 232 | 244 | 219 | 225 | 222 | 213 |

Notes: CO2 emissions per unit of production is the volume of CO2 emitted per ton of production.

DIC Group (Overseas)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| CO2 emissions (1,000 tons) | 426,741 | 388,730 | 415,176 | 478,578 | 402,342 | 408,091 | 417,184 | 390,346 | 386,143 |
| CO2 emissions per unit of production (kg/ton) | 314 | 365 | 357 | 414 | 388 | 403 | 398 | 375 | 369 |

Notes: CO2 emissions per unit of production is the volume of CO2 emitted per ton of production.

DIC Group (Global)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| CO2 emissions (1,000 tons) | 686,976 | 647,159 | 644,893 | 722,955 | 657,456 | 658,811 | 659,378 | 634,741 | 617,964 |
| CO2 Scope1 emissions (1,000 tons) | 323,216 | 303,123 | 265,205 | 292,245 | 267,660 | 279,019 | 281,221 | 274,920 | 268,634 |
| CO2 Scope2 emissions (1,000 tons) | 363,760 | 344,036 | 379,688 | 430,710 | 396,327 | 386,201 | 386,479 | 370,531 | 360,582 |
| CO2 marginal power supply evaluation (t) | - | - | - | - | -6,530 | -6,409 | -8,322 | -10,710 | -11,252 |
| CO2 emissions per unit of production (kg/ton) | 274 | 299 | 296 | 327 | 316 | 305 | 311 | 296 | 289 |
| CO2 emission index | - | - | - | 100 | 97 | 93 | 95 | 91 | 88 |

Notes: CO2 emissions per unit of production is the volume of CO2 emitted per ton of production.

CO2 emission index compares the change in emissions per unit of production with scal 2013 as the base year.

Table 7 Water Consumption and Wastewater Emissions

DIC Group (In Japan)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Water consumption (1,000 m ³) | 15,199 | 14,291 | 14,362 | 14,542 | 12,458 | 30,663 | 30,513 | 32,327 | 31,022 |
| Water consumption per unit of production (m ³ /ton) | 14 | 15 | 15 | 15 | 14 | 34 | 34 | 36 | 34 |
| Waste water emissions (1,000 m ³) | 11,749 | 11,822 | 11,461 | 11,577 | 11,298 | 26,039 | 28,168 | 31,025 | 29,694 |
| Waste water emissions per unit of production (m ³ /ton) | 11 | 12 | 12 | 12 | 12 | 29 | 31 | 33 | 32 |

DIC Group (Global)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|------|------|------|--------|--------|--------|--------|--------|--------|
| Water consumption (1,000 m ³) | - | - | - | 25,055 | 23,176 | 40,926 | 41,528 | 41,308 | 55,098 |
| Water consumption per unit of production (m ³ /ton) | - | - | - | 12 | 12 | 21 | 21 | 21 | 28 |
| Waste water emissions (1,000 m ³) | - | - | - | 14,930 | 14,363 | 29,396 | 37,593 | 38,822 | 43,049 |
| Waste water emissions per unit of production (m ³ /ton) | - | - | - | 7 | 7 | 15 | 19 | 20 | 22 |

Table 8 Emissions of PRTR and JCIA Chemicals

DIC Group (In Japan)

| Fiscal year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PRTR and JCIA chemicals (tons) | 997 | 759 | 567 | 466 | 367 | 394 | 397 | 396 | 394 |
| Emissions per unit of production (kg/ton) | 0.951 | 0.772 | 0.611 | 0.495 | 0.405 | 0.442 | 0.439 | 0.425 | 0.426 |