

Environmental Data

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Since we are committed to the reduction of environmental impacts, we are promoting energy saving, the prevention of global warming, waste reduction, and chemical substance reduction. The table below summarizes the energy and resource inputs and outputs associated with our FY2002 business activities by internal company and major affiliates. In pages 25 and 26, the major products and representative environmental impact data are listed by production base.

Internal Companies/Affiliates

| | | | | Aerospace Company | Gas Turbines & Machinery Company | |
|--|----------------|--|---------------------|-------------------|----------------------------------|------------------|
| Environmental impact caused by input of material, energy, etc. | | ton | 49,795 | 5,451 | 23,073 | |
| | | ton | 23,757 | 0 | 0 | |
| | Electric power | TJ | 483 | 846 | 516 | |
| | Fuel | TJ | 145 | 360 | 494 | |
| | Total | TJ | 628 | 1,206 | 1,010 | |
| | | TJ | 0 | 0 | 0 | |
| | | m ³ | 589,755 | 3,662,000 | 625,815 | |
| | | m ³ | 11,294 | 161,119 | 0 | |
| | ton | 0 | 0 | 0 | | |
| | kg | 1,197,127 | 166,643 | 16,000 | | |
| Environmental impact upstream of business area | | 1 mil yen | 50 | 122 | 102 | |
| Environmental impact caused by output of unnecessary things | Air | Greenhouse gas emission | t - CO ₂ | 32,319 | 56,265 | 50,135 |
| | | Ozone depleting substances when emitted | kg | 1,334 | 12,043 | 8,254 |
| | | Recycled resource and recycled parts input | kg | 3,328 | 20,384 | 103,314 |
| | | Amount of harmful material handled | kg | 620 | 1,633 | 1,464 |
| | | | kg | 124,801 | 113,523 | 17,168 |
| | | | kg | 111,219 | 110,993 | 12,879 |
| | | SO _x | PPM | Compliant 2 | Compliant 2 | Compliant 2 |
| | | NO _x | PPM | Compliant 2 | Compliant 2 | Compliant 2 |
| | | Dust | g/m ³ N | Compliant 2 | Compliant 2 | Compliant 2 |
| | | Dioxins | ng/m ³ N | Not applicable 4 | Not applicable 4 | Not applicable 4 |
| | | Benzene | mg/m ³ N | Not applicable 4 | Not applicable 4 | Not applicable 4 |
| | | | dB | Compliant 2 | Compliant 2 | Compliant 2 |
| | | | m ³ /min | Compliant 2 | Compliant 2 | Compliant 2 |
| | Water quality | | m ³ | 325,073 | 1,481,424 | 156,414 |
| | | | kg | 0.1 | 42 | 0 |
| | | COD | kg | 720 | 8,580 | 34 |
| | | Nitrogen | kg | 1,006 | 22,776 | 30 |
| | Soil quality | Phosphorous | kg | 61 | 351 | 0 |
| | | | mg/L | Compliant 2 | Compliant 2 | Compliant 2 |
| | Waste | Total discharge of waste, etc. | ton | 13,235 | 3,306 | 4,654 |
| Reused resources | | ton | 0 | 0 | 5 | |
| Recycled resources | | ton | 11,832 | 1,630 | 3,273 | |
| Resources subject to thermal energy recovery | | ton | 577 | 693 | 754 | |
| Amount of waste | | ton | 80 | 148 | 500 | |
| Final disposal waste | | ton | 752 | 474 | 82 | |
| Specially controlled industrial waste | | kg | 84,930 | 203,050 | 41,712 | |
| PRTR substance transfer | | kg | 79,113 | 41,769 | 3,120 | |
| Environmental impact downstream of business area | | | P13 ~ 14 | P13 ~ 14 | P13 ~ 14 | |
| | | | 3 | 3 | 3 | |
| Environmental impact caused by transport | | t - CO ₂ | 319 | 227 | 112 | |
| | | kg | 2,108 | 1,118 | 269 | |
| | | unit | 2 | 1 | 1 | |

1. Performance items in the table above were taken from "State of Activities for Reduction of Environmental Burden" contained in the 2000 Environmental Reporting Guidelines of the Ministry of the Environment. Environmental data is given in the horizontal direction for internal companies as well as for a single group consisting of the head office, branch offices and technical institutes.
2. The discharge concentration of regulated substances and the generation of noise, vibrations and odors are listed as "Compliant" or "Not Compliant".
3. " " is used when data was unavailable. "0" means the measured data was zero.
4. "Not applicable" means there were no regulated facilities that create environmental impact.
5. Data in [] is the percentage of increase/decrease from performance data of the previous year. Provided only where last year's data was available.

| Plant & Infrastructure Engineering Company | Consumer Products & Machinery Company | Head Office, Branch Offices & Technical Institutes | Kawasaki Shipbuilding | Kawasaki Precision Machinery | Total | Comparison with Previous Year |
|--|---------------------------------------|--|-----------------------|------------------------------|-----------|-------------------------------|
| 50,297 | 167,230 | 106 | 171,051 | 19,371 | 486,374 | |
| 51 | 1,699 | 0 | 1,900 | 0 | 27,407 | |
| 197 | 796 | 100 | 553 | 247 | 3,738 | |
| 24 | 733 | 48 | 137 | 160 | 2,101 | |
| 221 | 1,529 | 147 | 690 | 407 | 5,839 | |
| 0 | 0 | 0 | 0 | 0 | 0 | |
| 163,407 | 976,700 | 80,892 | 717,240 | 176,876 | 6,992,685 | |
| 31,923 | 30,407 | 0 | 26,327 | 32,926 | 293,996 | |
| 20 | 0 | 25 | 0 | 0 | 45 | |
| 69,145 | 649,490 | 3 | 2,084,618 | 35,259 | 4,218,281 | |
| 205 | 233 | 11 | 7 | 1 | 731 | |
| 9,461 | 66,119 | 6,656 | 34,113 | 17,364 | 272,432 | |
| 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 479 | 3 | 465 | 13 | 22,588 | |
| 160 | 21,970 | 3 | 984 | 10,431 | 160,565,4 | 藤椒琶井苧13 |
| 0 | 750 | 3 | 76 | 149 | | |
| 50,725 | 238,574 | 3 | 579,899 | 28,145 | | |
| 54,045 | 238,577 | 3 | 579,254 | 28,145 | | |
| Compliant 2 | Compliant 2 | Not applicable 4 | Compliant 2 | Compliant 2 | | |
| Compliant 2 | Compliant 2 | Not applicable 4 | Compliant 2 | Compliant 2 | | |
| Compliant 2 | Compliant 2 | Not applicable 4 | Compliant 2 | Compliant 2 | | |
| Not applicable 4 | Compliant 2 | Not applicable 4 | Not applicable 4 | Not applicable 4 | | |
| Not applicable 4 | Not applicable 4 | Not applicable 4 | Not applicable 4 | Not applicable 4 | | |
| Compliant 2 | Compliant 2 | Not applicable 4 | Compliant 2 | Compliant 2 | | |
| Compliant 2 | Compliant 2 | Not applicable 4 | Compliant 2 | Compliant 2 | | |
| 83,753 | 558,231 | 27,925 | 448,273 | 58,778 | | |
| 0 | 3,252 | 3 | 0 | 0 | | |
| 418 | 5,751 | 0 | 739 | 539 | | |
| 255 | 13,337 | 3 | 3 | 364 | | |
| 49 | 516 | 3 | 3 | 79 | | |
| Compliant 2 | Compliant 2 | Compliant 2 | Compliant 2 | Compliant 2 | | |
| 5,259 | 15,378 | 182 | 22,141 | 2,806 | | |
| 0 | 5,589 | 0 | 15 | 0 | | |
| 4,920 | 3,551 | 79 | 19,122 | 2,689 | | |
| 220 | 1,233 | 100 | 252 | 112 | | |
| 27 | 2,986 | 3 | 1,396 | 0 | | |
| 56 | 1,481 | 0 | 1,242 | 5 | | |
| 2 | 583,872 | 0 | 60,961 | 2,484 | | |
| 10,281 | 24,300 | 0 | 69,044 | 6,293 | | |
| P13 ~ 14 | P13 ~ 14 | P13 ~ 14 | P13 ~ 14 | P13 ~ 14 | | |
| 3 | 3 | 3 | 3 | 3 | | |
| 330 | 14,280 | 2 | 0 | 91 | | |
| 1,895 | 98,828 | 8 | 0 | 315 | | |
| 0 | 8 | 0 | 0 | 0 | | |



