

4. Status of Environmental Load by Office

Status of the environmental load at thermal power stations

| | Input | | | | | | Industrial-use water for power generation (tons) | Business activities Electric power production (MWh) | Environmental load (upper column, unit: tons)/emissions intensity (lower column, unit: g/kWh) | | | | |
|--------------|------------------|----------------|----------------|------------------|---------------|----------------|--|--|---|------------------------------|------------------------------|----------------------------|---------------------------------|
| | Fuels | | | | | | | | CO ₂ | SO _x * | NO _x * | Particulates* | Industrial waste |
| | Coal (tons) | Heavy oil (kl) | Crude oil (kl) | LNG (tons) | LPG (tons) | Light oil (kl) | | | | | | | |
| Karatsu | | 5,472 | 27,289 | | | 3,885 | 158,460 | 127,784 | 100 × 10 ³ 784 | 205 1.604 | 127 0.994 | 0.8 0.006 | 2.26 1.769 |
| Shin-Kokura | | | | 1,008,499 | | | 588,279 | 5,714,506 | 2,725 × 10 ³ 477 | 0 0.000 | 260 0.045 | 0 0.000 | 2.18 0.038 |
| Oita | | 7,402 | | | 6 | 1,084 | 108,432 | 29,045 | 24 × 10 ³ 842 | 44 1.515 | 30 1.033 | 0.3 0.010 | 1.19 4.097 |
| Karita | 380,921 | 12,685 | | | | 2,339 | 568,062 | 1,065,602 | 894 × 10 ³ 839 | 75 0.089 | 194 0.231 | 12 0.014 | 56.559 53.077 |
| Minato | 305,132 | | | | | 754 | 250,120 | 824,280 | 724 × 10 ³ 879 | 256 0.311 | 728 0.883 | 8 0.010 | 38.128 46.256 |
| Ainoura | | 64,506 | 25,338 | | | 4,432 | 192,912 | 358,774 | 270 × 10 ³ 753 | 654 1.823 | 259 0.722 | 5 0.014 | 7.76 2.168 |
| Omura | 169,268 | 8,740 | | | | 706 | 188,416 | 371,459 | 329 × 10 ³ 886 | 1,619 4.358 | 599 1.613 | 332 0.894 | 63.914 172.062 |
| Sendai | | 35,094 | 94,084 | | 21,549 | 4,932 | 207,408 | 608,272 | 432 × 10 ³ 710 | 1,634 2.686 | 376 0.618 | 8 0.013 | 2.30 0.378 |
| Buzen | | 42,307 | 75,302 | | | 7,631 | 208,266 | 486,643 | 350 × 10 ³ 719 | 742 1.525 | 295 0.606 | 2 0.004 | 5.32 1.046 |
| Matsuura | 1,836,687 | 697 | | | | 1,149 | 1,068,482 | 5,431,619 | 4,431 × 10 ³ 816 | 1,653 0.304 | 1,098 0.202 | 74 0.014 | 237.462 43.718 |
| Shin-Oita | | | | 1,522,299 | | | 484,070 | 10,420,862 | 4,100 × 10 ³ 393 | 0 0.000 | 1,402 0.135 | 0 0.000 | 3.28 0.031 |
| Reihoku | 1,390,201 | 743 | | 2,894 | | 2,894 | 871,297 | 4,038,143 | 3,304 × 10 ³ 818 | 1,157 0.287 | 1,065 0.264 | 81 0.020 | 193.600 47.943 |
| Total | 4,082,210 | 177,644 | 222,013 | 2,533,693 | 21,555 | 29,806 | 4,894,204 | 29,476,989 | 17,684 × 10³ 600 | 8,039 0.275 | 6,433 0.220 | 523 0.018 | 592.069 20.086 |

*SO_x, NO_x and particulate emissions do not include those emitted during the trial run from power station construction. Electric power production for the emissions intensity calculation also excludes that during the trial run (Karita Power Station: 224,880 MWh).

Status of the environmental load at internal combustion power stations

| | Input | | | | | | Industrial-use water for power generation (tons) | Business activities Electric power production (MWh) | Environmental load (upper column, unit: tons)/emissions intensity (lower column, unit: g/kWh) | | | | |
|--------------|-------------|----------------|----------------|------------|------------|----------------|--|--|---|-------------------|-------------------|---------------|------------------|
| | Fuels | | | | | | | | CO ₂ | SO _x * | NO _x * | Particulates* | Industrial waste |
| | Coal (tons) | Heavy oil (kl) | Crude oil (kl) | LNG (tons) | LPG (tons) | Light oil (kl) | | | | | | | |
| Total | | 311,213 | | | | | | 1,388,081 | 913 × 10 ³ 658 | 8,256 5.954 | 24,760 17.857 | 806 0.581 | 1,055 0.760 |

*SO_x, NO_x and particulate emissions do not include those emitted during the trial run from power station construction. Electric power production for the emissions intensity calculation also excludes that during the trial run (1,457 MWh).

Status of the environmental load in nuclear power stations

| | Input | | Business activities Electric power production (MWh) | Environmental load (upper column)/emissions intensity (lower column) | |
|--------------|---------------------|--|--|--|--|
| | Nuclear fuel (tons) | Industrial-use water for power generation (tons) | | Radioactive waste (upper column: pieces, each equivalent to one 200-liter oil drum)/lower column: pieces/GWh | Industrial waste (upper column: tons, lower column: ton/GWh) |
| Genkai | 62 | 1,299,987 | 22,529,851 | 2,069 0.092 | 3,929 0.174 |
| Sendai | 40 | 500,536 | 14,194,955 | 86 0.006 | 526 0.037 |
| Total | 102 | 1,800,523 | 36,724,806 | 2,155 0.059 | 4,455 0.121 |

*Increase in amount is due to renewal of components at Units 1 & 2 of Genkai Nuclear Power Station

Status of environmental load by areas under branch offices (branch offices, customer service offices and power system maintenance offices)

| Branch name | Input | | Business activities Electricity sales (GWh) | Environmental load (upper column, unit: tons)/emissions intensity (lower column, unit: g/kWh) | | |
|--------------|--------------------------------|---|--|---|------------------------------|-------------------------------|
| | Office power consumption (MWh) | Fuel consumption by company vehicles (kl) | | CO ₂ from fuel consumption by company vehicles | Used paper | Industrial waste |
| Kitakyushu | 14,283 | 362 | 12,002 | 889 0.074 | 166 0.014 | 2,146 0.179 |
| Fukuoka | 24,982 | 532 | 17,738 | 1,307 0.074 | 219 0.012 | 3,386 0.191 |
| Saga | 7,795 | 345 | 5,448 | 848 0.156 | 105 0.019 | 1,105 0.203 |
| Nagasaki | 11,660 | 365 | 6,930 | 898 0.130 | 133 0.019 | 1,114 0.161 |
| Oita | 11,716 | 500 | 7,663 | 1,228 0.160 | 148 0.019 | 1,467 0.191 |
| Kumamoto | 13,375 | 568 | 9,917 | 1,396 0.141 | 179 0.018 | 1,688 0.170 |
| Miyazaki | 10,722 | 437 | 6,605 | 1,073 0.162 | 138 0.021 | 841 0.127 |
| Kagoshima | 13,944 | 684 | 9,025 | 1,680 0.186 | 191 0.021 | 1,111 0.123 |
| Total | 108,476 | 3,794 | 75,328 | 9,322 0.124 | 1,113 0.015 | 10,712 0.142 |

N.B. Some branch offices may cover areas in more than one prefecture, such as in Saga and Nagasaki Prefectures.