

Environment Conservation Costs

(Unit: million yen)

| Classification | | Items | Non-consolidated | | | | NGK SPARK PLUG Group* | | | |
|------------------------------------|--|---|------------------|------|---------|-------|-----------------------|------|---------|-------|
| | | | Investment | | Expense | | Investment | | Expense | |
| | | | 2010 | 2011 | 2010 | 2011 | 2010 | 2011 | 2010 | 2011 |
| Costs within the business area | Pollution prevention cost | Air/water pollution prevention and noise reduction | 29 | 35 | 419 | 696 | 53 | 40 | 860 | 1,146 |
| | Global environmental conservation cost | Global warming prevention, energy conservation | 11 | 92 | 304 | 417 | 32 | 106 | 347 | 477 |
| | Resource circulation cost | Effective resource utilization, industrial waste treatment/disposal | 17 | 9 | 374 | 301 | 24 | 12 | 507 | 452 |
| | Sub-total | | 57 | 136 | 1,096 | 1,414 | 109 | 157 | 1,714 | 2,075 |
| Upstream & downstream cost | | Employee environmental education, EMS construction and operation | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 13 |
| Management activity cost | | Employee environmental education, EMS construction and operation | 25 | 16 | 323 | 328 | 25 | 17 | 400 | 420 |
| R&D cost | | R&D of products promoting environment preservation | 372 | 645 | 6,004 | 6,517 | 372 | 645 | 6,004 | 6,517 |
| Social activity cost | | Nature protection, afforestation, environmental ads | 1 | 0 | 152 | 159 | 1 | 0 | 158 | 165 |
| Environment damage correction cost | | Repair of soil contamination, disrupted nature | 0 | 0 | 6 | 10 | 0 | 0 | 6 | 11 |
| Other costs | | – | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 |
| Total | | | 454 | 798 | 7,581 | 8,428 | 507 | 819 | 8,297 | 9,200 |

●Any inconsistency between an aggregate of all itemized figures and a "Total" figure is due to rounding of fractions.

*Excluding Nittoku Alpha Service Co., Ltd.

Value of Environmental Preservation Impact

(Unit: million yen)

| Area of recognized effect | | Non-consolidated |
|---------------------------|--|------------------|
| Revenue | Revenue generated from the recycling of waste generated in operations or used products | 203 |
| Cost saving | Energy cost saving achieved from energy conservation efforts | 116 |
| | Reduction of water expenses through water saving | 4 |
| | Waste disposal cost saving achieved by resource conservation and recycling efforts | 8 |
| Total | | 331 |

Quantity of Environmental Preservation Impact

| Classification | | Non-consolidated | | | NGK SPARK PLUG Group | | | |
|---|--|--|--------------------|--|-----------------------------|---------|--|----------|
| Effect measured in the business area | Types of effect | 2010 | 2011 | Difference from the previous fiscal year | 2010 | 2011 | Difference from the previous fiscal year | |
| | | Effect measured with respect to resource input into operations | Energy consumption | | Purchased electricity (GWh) | 23,264 | | 23,316 |
| Gas (million m ³) | 1,391 | | | 1,421 | 30 | 1,621 | 1,506 | -115 |
| LPG (tons) | 3,313 | | | 3,182 | -131 | 8,015 | 7,361 | -654 |
| Heavy oil A (kL) | 0 | | | 0 | 0 | 0 | 0 | 0 |
| Water consumption | Tap water (m ³) | | 772,868 | 681,298 | -91,570 | 990,315 | 895,960 | -94,355 |
| | Well water (m ³) | | 412,697 | 401,720 | -10,977 | 879,603 | 794,088 | -85,515 |
| Quantity of PRTR law-regulated substances handled (tons) | | 671 | 619 | -52 | 917 | 823 | -94 | |
| Effect measured with respect to environmental load and waste from business activities | CO2 emission from energy consumption (tons) | | 122,294 | 116,663 | -5,631 | 187,512 | 177,435 | -10,077 |
| | Recycled plant wastewater *(m ³) | | 607,824 | 344,903 | -262,921 | 848,629 | 570,710 | -277,919 |
| | Waste | Effectively utilized mass (tons) | 12,757 | 11,745 | -1,012 | 16,678 | 14,887 | -1,791 |
| | | Buried, incineration (tons) | 126 | 155 | 29 | 141 | 172 | 31 |
| | PRTR law-regulated substances released into air and water (tons) | | 3.5 | 1.5 | -2 | 141 | 112 | -29 |

*Definition of recycled plant wastewater: Recycled water is defined as water that is reused after treatment of waste water.