

Environmental Action Plan up to Fiscal 2007 and Fiscal 2006 Results

The Ricoh Group's Environmental Action Plan (FY 2005–2007) *For items that do not specify a target fiscal year, the target year is fiscal 2007.

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| 1 Improving environmentally-friendly functions and promoting environmental technological development | 1) Develop new environmental technologies. (*Details of the progress of new technologies not currently released.) Page 23 ① Develop new environmental technologies to reduce resource use. ② Develop new environmental technologies to realize a society that is less dependent on fossil resources. 2) Improve environmentally-friendly functions. ① Promote the use of energy-saving technologies in products. Page 25 <ul style="list-style-type: none">Achieve Ricoh's energy-saving goals. ② Promote the use of resource-saving technologies in products. <ul style="list-style-type: none">Improve the quantity of reusable parts used by a factor of at least five (compared to fiscal 2003 figures in Japan).Increase the quantity of recycled plastics used to 1,000 tons or more. ③ Observe Ricoh standards that cover environmentally-sensitive substances emitted by products. Page 31 <ul style="list-style-type: none">Observe Ricoh standards that cover such substances as ozone, dust, and VOC. |
| 2 Promoting green marketing | ① Increase the number of recycled copiers marketed. Page 28 <ul style="list-style-type: none">Increase the number of recycled copiers marketed by a factor of at least 10 (compared to fiscal 2003 figures in Japan). ② Promote the green marketing of paper. <ul style="list-style-type: none">Improve the recycled pulp use rate for paper products to 60% or more (in Japan). |
| 3 Environmental conservation activities that improve the effect on cost at plants and offices | 1) Promote energy conservation at business sites. ① Reduce total amount of CO₂ emitted as a result of business activities. Page 35 <ul style="list-style-type: none">Reduce CO₂ emissions by 12% by fiscal 2010 (Ricoch and manufacturing subsidiaries in Japan, compared to fiscal 1990 figures).Reduce CO₂ emissions by 10% by fiscal 2010 (manufacturing subsidiaries outside of Japan, compared to fiscal 1998 figures).Reduce CO₂ emissions by 4% (Ricoch and manufacturing subsidiaries in and outside of Japan, compared to fiscal 2000 figures).Reduce CO₂ emissions by 4% (non-manufacturing subsidiaries in Japan, compared to figures in the base fiscal year set at each company). 2) Promote resource conservation at business sites. ① Reduce generated waste. Page 41 <ul style="list-style-type: none">Reduce generated waste by at least 3% (Ricoch and manufacturing subsidiaries in and outside of Japan, compared to fiscal 2000 figures).Reduce generated waste by the ratio calculated by multiplying the number of years from the base fiscal year to fiscal 2007 by the yearly rate (2%) (non-manufacturing subsidiaries in Japan; the base fiscal year is set at each company). ② Improve the waste recycling rate. Page 41 <ul style="list-style-type: none">Improve the waste recycling rate to at least 95% (non-manufacturing subsidiaries in Japan). ③ Reduce water consumption. Page 41 <ul style="list-style-type: none">Reduce water consumption to a level that is below the results of fiscal 2000 (Ricoch production sites and manufacturing subsidiaries in and outside of Japan). ④ Reduce paper consumption. <ul style="list-style-type: none">Reduce paper consumption by at least 10% (Ricoch, manufacturing and non-manufacturing subsidiaries in Japan, and manufacturing subsidiaries outside of Japan, compared to fiscal 2002 figures). 3) Promote pollution prevention at business sites. ① Completely eliminate the use of chlorine organic solvents. <ul style="list-style-type: none">Completely eliminate chlorine organic solvents used in manufacturing Organic Photo Conductors at manufacturing contractors as well as at Ricoch manufacturing divisions. ② Reduce greenhouse gas emissions (except CO₂). Page 36 <ul style="list-style-type: none">Reduce greenhouse gas emissions (except CO₂) in the semiconductor business division by 15% (compared to fiscal 2000 figures). ③ Examine and improve soil and underground water at Ricoch's non-production sites and leased land. Page 47 <ul style="list-style-type: none">Complete the examination of soil and underground water at Ricoch's non-production sites and leased land (Ricoch and affiliates in and outside of Japan).Make and implement plans to improve sites where pollution is detected. |
| 4 Improving the sustainable environmental management system and making it more consistent through systems integration | 1) Improve the sustainable environmental management system. ① Improve the ISO 14001 system. Page 49 <ul style="list-style-type: none">Integrate the sustainable environmental management system with that of Ricoch (in fiscal 2005) and the Ricoch Group (in fiscal 2007). ② Create a system of managing chemical substances contained in products. Page 31 <ul style="list-style-type: none">Create and enforce a system of managing chemical substances contained in Ricoch Group products (in fiscal 2005). ③ Improve the sustainable environmental management information system. Page 51 <ul style="list-style-type: none">Introduce the information system, which manages real-time information on the environmental impact caused at resource processing sites, to various business divisions other than the imaging equipment division.Introduce the information system, which manages real-time information on the environmental impact caused by transportation processes, to transportation processes outside of Japan. |
| 5 Promoting environmentally-friendly social contribution activities to preserve the ecosystem | ① Promote forest conservation activities and environmentally-friendly social contribution activities to preserve the ecosystem. Page 63 <ul style="list-style-type: none">Promote environmentally-friendly social contribution activities to preserve the ecosystem (regional sales headquarters outside of Japan; Ricoch production sites, manufacturing subsidiaries, and marketing subsidiaries in Japan; Ricoch Logistics Systems Co., Ltd.; Ricoch Leasing Company, Ltd.; and Ricoch San-ai Service Co., Ltd.). |

* Results for items 1 through 4 were reviewed by a third party.

Progress (fiscal 2006 performance)

- ▶ For imaging equipment, a range of elemental technologies is being developed to reduce size and weight.
- ▶ Prototypes of large and transparent parts for imaging equipment made from plant-based plastic and toners using plant-based resin were produced and exhibited at Eco-Products 2006.

- ▶ Our copiers, multifunctional copiers, and printers all meet energy-saving goals.

- ▶ Quantity of reusable products used increased 3.2 times.
- ▶ Quantity of recycled plastic used amounted to 1,132 tons.

- ▶ Ten models of copiers, multifunctional copiers, and printers launched on the market in fiscal 2006 achieved Ricoh's standards for ozone, dust, and VOC, and meet the Blue Angel requirements 2007.

- ▶ Sales of recycled copiers increased 5.1 times.

- ▶ In addition to using 100% recycled paper, we have mixed a certain amount of recycled pulp into paper made mostly from virgin pulp. The amount of recycled pulp contained in the paper reached 61.3%, achieving the target.

- ▶ Total CO₂ emissions decreased 2.5%.

- ▶ Total CO₂ emissions increased 7.7%.

- ▶ Ricoh and manufacturing subsidiaries in Japan: Total CO₂ emissions increased 3.3%.
- ▶ Manufacturing subsidiaries outside of Japan: Total CO₂ emissions increased 14.2%.

- ▶ Changes in total CO₂ emissions: 15.6% reduction at sales subsidiaries in Japan*; 4.4% reduction at Ricoh Leasing; 4.4% reduction at Ricoh San-ai Service; and 8.7% reduction at Ricoh Logistic Systems. Each company's base year for comparison: 2004 for Ricoh Leasing and 2002 for other companies.
- *Figure for sales subsidiaries in Japan is the total for all sales subsidiaries in Japan plus Ricoh Technosystems.

- ▶ Generated waste increased 2.9%.

- ▶ Changes in generated waste: 18.8% reduction at sales subsidiaries in Japan*; 6.0% increase at Ricoh Leasing; 9.9% reduction at Ricoh San-ai Service; and 35.9% reduction at Ricoh Logistic Systems. Each company's base year for comparison: 2002 for Ricoh Logistic Systems and 2004 for other companies. *Figure for sales subsidiaries in Japan is the total all sales subsidiaries in Japan plus Ricoh Technosystems.

- ▶ Waste recycling rate improved to 94.6%–98.4%.

- ▶ Water consumption decreased 11.8%.

- ▶ Paper consumption decreased 4.2%.

- ▶ Use of chlorine organic solvents was completely discontinued in the consignment production of photoconductors at plants other than Ricoh's in March 2006. Project accomplished.

- ▶ Greenhouse gases other than CO₂ were reduced by 29.0%.

- ▶ Surface soil inspections were carried out at five locations where there was the possibility of soil pollution from land use in the past, but no pollution that needed dealing with was found.

- ▶ No pollution that needed dealing with was found, and all the measures were completed.

- ▶ In fiscal 2006, Ricoh's Integrated Environmental Management System acquired integrated certification by a third-party organization. This moved forward the merger between our businesses and environmental management system.

- ▶ We have established a system of managing chemical substances contained in products also at our sites outside Japan. We will perform an internal audit and will pursue stricter management.

- ▶ An information system that manages information on the environmental impact generated by resources input to our GELJET printers and measuring instruments businesses was established.

- ▶ An information system was also created to calculate the CO₂ emissions per delivery in Japan.

- ▶ Social contribution activities to preserve the ecosystem were expanded at home and abroad, and sales subsidiaries and plants in various places actively participated in the projects.
 - Regional headquarters and sales subsidiaries outside of Japan: 37 projects
 - Manufacturing subsidiaries outside of Japan: 25 projects
 - Manufacturing subsidiaries and production sites in Japan: 117 projects
 - Sales subsidiaries in Japan: 129 projects
 - Non-manufacturing subsidiaries in Japan (Ricoh Logistic Systems, Ricoh Leasing, and Ricoh San-ai Service): 19 projects