

A new Group environmental action plan starts in fiscal 2005

Review of the environmental action plans for the past three years

The Ricoh Group has engaged in activities to attain environmental action plans based on the 14th Medium-term Management Plan for the past three years. The major results obtained were the development and introduction of energy-saving technologies to copiers, the marketing of products in which no chemical substances (lead, hexavalent chromium, cadmium, and PVC) are contained, a rapid improvement in collection rates and the resource recovery of used products in and outside of Japan, and a drastic reduction in the volume of use and emissions of environmental-sensitive substances in the manufacturing process. Through these activities, the Group succeeded in reducing the integrated environmental impact* in fiscal 2004 by 8.6% over the figures for fiscal 2000. *See page 9.

Start of a new environmental action plan to realize sustainable environmental management

The Ricoh Group started a new environmental action plan in fiscal 2005. The Group promotes activities that realize the sustainable environmental management based on concrete action plans by setting target values for several years to come. In making the new environmental action plan, however, the Ricoh Group used the back-casting method to set target values as milestones on the journey to its final goals and the ideal global environment that we should pursue.* Based on the estimation that its business will expand by 8% or more a year, the Ricoh group plans to reduce environmental impact by 15 % by fiscal 2007 and 20% by 2010 over the figures for fiscal 2000.

*See page 7.

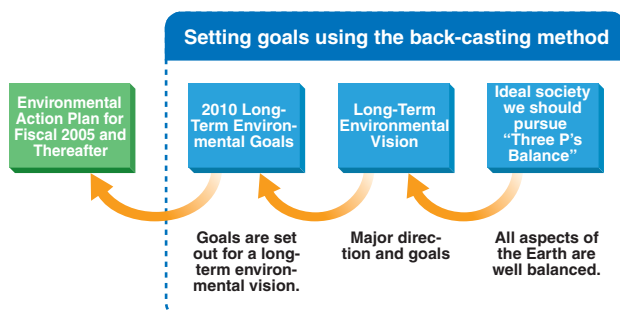
Important measures in the new environmental action plan

In carrying forward the new environmental action plan, the Ricoh Group will place emphasis on such measures as promoting the reduction of CO₂ emissions at a higher level than the goal mentioned in the Kyoto Protocol, improving the sustainable environmental management system, developing energy-saving technologies, promoting the marketing of recycled products, and developing new technologies to contribute to resource conservation.

Clarifying the progress of achieving environmental conservation while generating profits

The Ricoh Group, as a global citizen, should continue to engage in environmental conservation activities. On the other hand, to achieve continuous environmental conservation, the Group, as a company, needs to pursue economic values through those activities. The Ricoh Group conducted a simulation to measure the balance between environmental conservation costs and reducing environmental impact while generating profits by using the environmental accounting system for each measure in the new environmental action plan. The Group will continue to manage environmental goals based on the environmental accounting results. According to the environmental action plan for fiscal 2005 and thereafter, the Ricoh Group will promote environmental activities by clarifying the progress of achieving environmental conservation while generating profits.

How to Set Environmental Goals



Considerations in Preparing an Environmental Action Plan



The Ricoh Group's Environmental Action Plan (FY 2005–2007) *Items for which any fiscal year is not mentioned are those planned to be achieved in fiscal 2007.

1 Improving environmentally-friendly functions and promoting environmental technological development	<p>1) Develop new environmental technologies. (*Details of the progress of new technologies are not currently released.)</p> <ul style="list-style-type: none"> ① Develop new environmental technologies to reduce resource use. ② Develop new environmental technologies to realize a society that is less dependent on fossil fuel. <p>2) Improve environmentally-friendly functions.</p> <ul style="list-style-type: none"> ① Promote the use of energy-saving technologies in products. <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. <ul style="list-style-type: none"> • Observe Ricoh standards that cover such substances as ozone, dust, and VOC.
2 Promote green marketing.	<ul style="list-style-type: none"> ① Increase the number of recycled copiers marketed. <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	<p>1) Promote energy conservation at business sites.</p> <ul style="list-style-type: none"> ① Reduce total amount of CO₂ emitted as a result of business activities. <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). <p>2) Promote resource conservation at business sites.</p> <ul style="list-style-type: none"> ① Reduce generated waste. <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. <ul style="list-style-type: none"> • Improve the waste recycling rate to at least 95% (non-manufacturing subsidiaries in Japan). ③ Reduce water consumption. <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). <p>3) Promote pollution prevention at business sites.</p> <ul style="list-style-type: none"> 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 Ricoh manufacturing divisions. ② Reduce greenhouse gas emissions (except CO₂). <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 Ricoh's non-production sites and leased land. <ul style="list-style-type: none"> • Complete the examination of soil and underground water at Ricoh'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	<p>1) Improve the sustainable environmental management system.</p> <ul style="list-style-type: none"> ① Improve the ISO 14001 system. <ul style="list-style-type: none"> • Integrate the sustainable environmental management system with that of Ricoh (in fiscal 2005) and the Ricoh Group (in fiscal 2007). ② Create a system of managing chemical substances contained in products. <ul style="list-style-type: none"> • Create and enforce a system of managing chemical substances contained in Ricoh Group products (in fiscal 2005). ③ Improve the sustainable environmental management information system. <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 overseas transportation processes.
5 Promoting environment-conscious social contribution activities to preserve the ecosystem	<ul style="list-style-type: none"> ① Promote forest conservation activities and environment-conscious social contribution activities to preserve the ecosystem. • Promote environment-conscious social contribution activities to preserve the ecosystem (overseas regional headquarters; Ricoh production sites, manufacturing subsidiaries, and marketing subsidiaries in Japan; Ricoh Logistics Systems Co., Ltd.; Ricoh Leasing Company, Ltd.; and Ricoh Sanai Services).