Action plans are mapped out and sustainable environmental management is evaluated using Eco Balance, integrated environmental impact, and environmental accounting as tools.

The Ricoh Group believes that the environmental impact generated by advanced nations must be reduced to one-eighth the fiscal 2000 levels by 2050 (described in the Long-Term Environmental Vision 1). For our part, we aim to reduce total lifecycle CO2 emissions by the Group and the input of new resources as well as the impact of chemical substances on the environment by 87.5% (declared in the 2050 Long-Term Environmental Impact Reduction Goals 2). We pursue these targets by improving the level of sustainable environmental management—that is, by promoting environmental conservation activities that reduce environmental impacts and enhance economic effects at the same time. To realize this, an appropriate scheme must be built so that appropriate action plans can be mapped out to reduce the environmental impact caused by all our businesses, effective measures can be examined and implemented, and the results will be properly evaluated and disclosed. At the Ricoh Group, Eco Balance 3, integrated environmental impact 4, and environmental accounting 5 serve as tools to operate the PDCA for improvement of sustainable environmental management and for evaluation of action plans, measures and activity results.

1. See page 15. 2. See pages 15 and 16. 3. See page 59. 4 & 5. See page 58.

Understanding the environmental impact caused by all our businesses using Eco Balance and integrated environmental impact evaluation

The Ricoh Group obtains information on the environmental impact caused by all its businesses and by each process, using Eco Balance and integrated environmental impact as tools, to effectively reduce the environmental impact generated by processes with large environmental impact. First, Eco Balance is prepared based upon input and output data for each process and for each environmentally-sensitive substance. The data are collected by the sustainable environmental management information system ¹. At this stage, however, the significance of the environmental impact generated by each process cannot be compared because each process employs different environmentallysensitive substances. Therefore, an integrated analysis method is used to convert the total

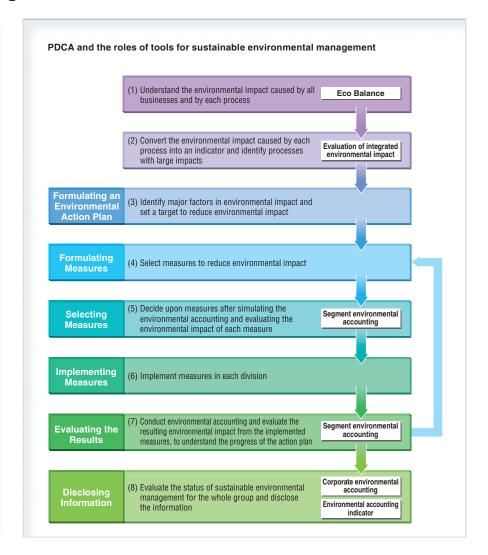
environmental impact caused by business activities—including impact upon human health, depletion of resources, and impact upon ecosystems/biodiversity—into indicators to evaluate the integrated environmental impact and identify processes generating large environmental impacts. The Ricoh Group sets environmental action plans ² based on its evaluation of the integrated environmental impact that is identified by Eco Balance.

1. See page 55. 2. See page 17.

Selecting measures by environmental accounting and evaluating activity results

Reducing environmental impact using measures that will lead to the creation of benefits is crucial to promoting sustainable

environmental management. The Ricoh Group uses environmental accounting to determine what measures should be taken for what processes and for what operations so that the maximum effect can be obtained. A number of improvement plans to reduce the identified environmental impact are examined in consideration of developments in society and laws/regulations and competitors to improve processes generating large environmental impact identified through evaluation based upon Eco Balance and the integrated environmental impact. Then, using segment environmental accounting, we simulate how much environmental impact is reduced and how much profit is created compared with the costs for each measure, while surveying the results of the individual measures.



Eco Balance of the Ricoh Group

The Ricoh Group introduced the concept of Eco Balance in fiscal 1998 to clarify the environmental impact caused by all its businesses and effectively reduce it. Currently, the Ricoh Group is calculating the integrated environmental impact using EPS, which is an integrated analysis method developed by IVL Swedish Environmental Research Institute Ltd. We adopted EPS because we found that its characteristics agree with the Ricoh Group's ideas about environmental impact caused by the collection of resources and the Comet Circle*, Ricoh's original concept aimed at establishing a sustainable society, after evaluating various methods adopted at home and/or abroad. We have mapped out environmental action plans based upon the concept of Eco Balance since fiscal 2002 and have applied the concept in the formulation of environmental goals that take a longer perspective since fiscal 2005.

* See page 14.

Ricoh Group's Environmental Accounting

The Ricoh Group disclosed its environmental accounting for the first time in 1999. Subsequently, the Group has introduced corporate environmental accounting to determine the status of sustainable environmental management and disclose related information, as well as segment environmental accounting etc., that are used to prepare environmental action plans, select measures, and verify achievements. Thus efforts are being made to establish environmental accounting as a tool for sustainable environmental management.

(1) Collection of data by the environmental impact information system Data on offices Data on offices Data on energy consumption and emissions of CO₂, NO_x, SO_x, etc. Data on products Types and volumes of parts and raw materials and power consumption by customers (2) Understanding of Eco Balance Based upon the data collected in (1), calculate the volumes of substances collected from the global environment in relation to the Ricoh Group's business and the volumes of substances emitted into the global environment during each process (3) Evaluation of integrated environmental impact Based upon the volumes of substances obtained in (2), convert different types of environmental impact generated by global warming gases, chemical substances, etc., into one indicator, to determine the environmental impact generated by each business and process (4) Analysis of the evaluation results Analyze the environmental impact that was determined in (3) and clarify its relationship with our business activities Selection of priority areas and measures Preparation of an environmental action plan

Corporate environmental accounting

The Ricoh Group calculates and announces the cost spent in its business activities for environmental conservation, as well as their conservation and economic effects, as quantitatively as possible. The Ricoh Group prepares such data in compliance with the Environmental Accounting Guidelines 2005—set by the Japanese Ministry of the Environment— by taking the necessary portion from the Eco Balance data and calculating the cost and effect (in quantity and monetary value) of its environmental conservation activities based on its own formulas and indicators. In fiscal 2007, the Group started disclosing its environmental

impact from a product lifecycle perspective, in addition to direct environmental impact (i.e., environmental impact generated at business sites). See page 61

Segment environmental accounting

This is an environmental accounting tool to forecast the costs and environmental conservation/economic effects of individual investment activities and projects for environmental conservation from among all processes of operations and to evaluate their results, in order to judge the effectiveness of respective measures.

See pages 21, 24, 33, 38 and 42.

Eco Balance

Eco Balance means the preparation of a list of input and output data on environmental impact to identify, quantitatively measure, and report environmental impact caused by companies; or such a list itself. It is based upon the same concept as LCA, and direct environmental impact as well as indirect environmental impact is calculated.

Integrated environmental impact

This is an integrated indicator shown in ELUs (environmental load units), incorporating various types of environmental impact caused by environmental load. Substances that put a load on the environment cause various phenomena including global warming and air pollution, which negatively affect the ecosystem, biodiversity and human health. In addition to these, the depletion of resources is taken into consideration, and all these factors are incorporated into one single indicator that represents the significance of

environmental impact overall. Determining the environmental load caused by all our businesses and calculating the integrated environmental impact allow us to formulate specific plans to reduce them. In calculation, we apply the EPS (Environment Priority Strategies for Product Design), a method developed by IVL Swedish Environmental Research Institute Ltd, to allow us to convert the results into monetary values (1 ELU = 1 Euro).