The Sustainable Environmental Management Information System supports the decision-making process for sustainable environmental management and promotes environmentally-friendly design.

The Sustainable Environmental **Management Information System is** designed to identify and promote the progress of sustainable environmental management. The system utilizes the Environmental Impact Information System to collect and process data on environmental impact and the Environmental Accounting System to collect and process data on environmental costs and effects. The collected data are processed and analyzed to identify the integrated environmental impact1 of overall operations; draw up environmental action plans2; support decision-making in sustainable environmental management; promote environmentallyfriendly design; improve activities by each division; process Corporate Environmental Accounting³; and disclose information to the public.

1. See page 53.





Environmental Impact Information System

This system collects and processes data on environmental impact caused by each operational process—including procurement, design, manufacturing, transportation/sales, use, maintenance/services, and collection/recycling—as well as by overall operations. Besides identifying the environmental impact of overall operations, the system automatically collects environmental data from the operational flow of each process, and such data is used to support PDCA in environmental improvement activities carried out at each process. Efforts are being made to improve the system so that it can be used more easily for data analyses and improvement activities as well as for the expansion of the items and range of collected data and improvement in precision. In fiscal 2006, we established a system for the automatic judgment of information on environmentally-sensitive substances in major parts as well as for the disclosure of product recycling information including WEEE*.

* See page 30.

Environmental Accounting System

This system enables "Corporate Environmental Accounting" in a timely manner by collecting data on environmental conservation effects obtained from the Environmental Impact Information System and environmental cost data obtained from the accounting system, and processing this into sustainable environmental management indicators.*

* See page 6.

Sustainable Environmental Management Information System

Environmental Impact Information System This system promotes green procurement in accordance with environmental action plans and **Procurement** information on laws and regulations. The system collects information on weight, component substances, and chemical substances in raw materials and parts by utilizing a network of suppliers. In fiscal 2006, this system was completed at the weighing and measuring instruments division of Ricoh Elemex Corporation. This is a system to select the most suitable materials and parts from the viewpoint of environmental conservation and costs in order Design to promote environmentally-friendly design. This CAD system works in tandem with the procurement management system and the chemical substance management system. This system identifies the environmental Manufacturing impact caused by operations. It collects data on power consumption, the quantity of chemical substances used, CO2 emissions, and waste discharged by all offices and sites, including production sites and non-production sites, such as Ricoh Head Office Transportation/Sales This system collects data on power consumption as well as the amount of gasoline used and waste generated in order to reduce the environmental impact caused by logistics sites, transportation processes, and sales sites. The collected data are used to support the PDCA cycle of EMS at each site. In fiscal 2006, a system was established to deal with the amended Energy Saving Law. This is a system to share data about environmental performances by product (power consumption, duplex copying productivity, recyclable design, etc.) and use Use such data for environmentally-friendly design and information disclosure in catalogs. This system compiles environmental impact information by product based on design data. Maintenance/Services This is a system to identify and analyze environmental impact caused by maintenance work on products. This system collects related information from the database of product maintenance records and the database of power and gasoline consumed in the maintenance sites. Collection/Recycling This system provides an information infrastructure to utilize plans that were prepared at the design stage for the reuse or recycling of collected products and to store detailed information on the resource recovery process



