

## Waste-reduction efforts are being made in consideration of the amount of chemical substances used/discharged and based upon the idea of risk management.

### ● Concept

The Ricoh Group categorizes and controls chemical substances that are regulated in various countries around the world according to whether they are to be prohibited, reduced, or controlled. As for chemical substances classified as those to be reduced, the Ricoh Group is engaged in reduction based on a concept of risk management. This is a method to reduce chemical substances whose environmental impact is serious. The environmental impact is determined by calculating the amount of chemical substances used/discharged and the environmental impact potential<sup>1</sup>. Additionally, the Group sets a standard to prevent environmental risk from occurring. Based on the standard, each business site thoroughly controls the amount of chemicals used, emitted, discharged, and disposed of in order to prevent percolation or outflow to the environment. In addition, we communicate the risk involved in chemical substances so that the Group can be trusted by the local community.

1. The environmental impact potential is set by Ricoh, taking toxicity, carcinogenicity, and the possibility of ozone depletion into consideration.

### ● Targets for Fiscal 2007

◎ Completely eliminate chlorine organic solvents used in manufacturing Organic Photo Conductors at manufacturing contractors as well as at Ricoh manufacturing divisions.

### ● Review of Fiscal 2006

Ricoh completely attained its target to eliminate the use of chlorine organic solvents in the consignment production of photo conductors by the end of fiscal 2005. The use of environmentally-sensitive substances was reduced 48.7%<sup>2</sup> from fiscal 2000, while the amount emitted decreased 88.9%<sup>3</sup> from fiscal 2000. Thus, Ricoh succeeded in maintaining the current levels (see graph ①). In fiscal 2006, solvent combustion equipment was introduced to the Ricoh Numazu Plant while a risk communication meeting was held at Ricoh Unitech Co., Ltd.

2&3. The figures have been converted using an environmental impact coefficient.

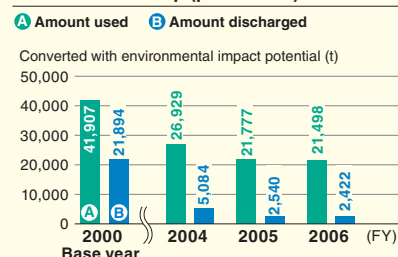
### ● Future Activities

We will continue our efforts to reduce the use and emissions of chemical substances so that they will not increase even though business operations will be significantly expanded. In fiscal 2007, we plan to continue the efforts we have made so far to reduce them. In addition, efforts will be made to upgrade the levels of risk assessment and management of chemical substances and risk communication.

### <The Entire Ricoh Group>

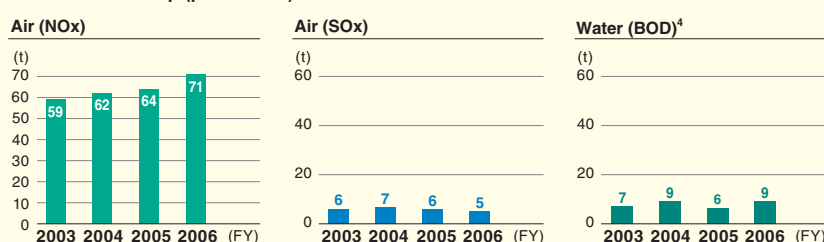
#### Changes in the Amount Used and Discharged of Ricoh Target Substances for Reduction

##### ① The Ricoh Group (production)



#### Changes in the Amount of Nox, SOx and BOD

##### ② The Ricoh Group (production)



4. Represents total emissions directly released into water areas for public use.

\* The Ricoh target substances for reduction are defined as the PRTR substances designated by four electric/electronic industrial associations in Japan between fiscal 1998 and fiscal 2000. Coverage of chemical substances by Ricoh may differ slightly from those provided by the PRTR Law. As for the uses and emissions of respective substances, please refer to our Web site at <http://www.ricoh.com/environment/data/index.html>

\* Graphs ① and ② do not include data for Ricoh Printing Systems and Shanghai Ricoh Digital Equipment.

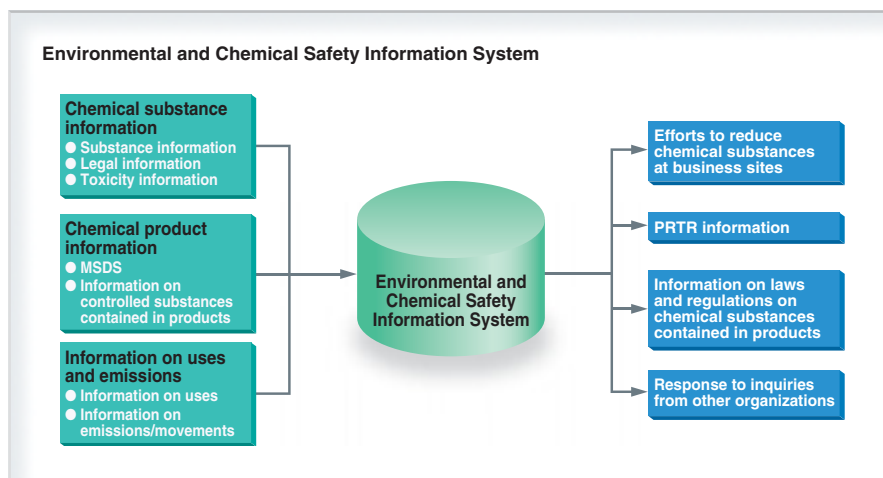
#### Segment Environmental Accounting of Pollution Prevention Activities at Business Sites (The Entire Ricoh Group)

Costs			Effects			
			Economic benefits		Effect on environmental conservation	
Item	Main cost	Costs	Items	Benefits	Items	Amount
Business area cost	Pollution prevention cost	¥186.4 million	Reduction in social cost	¥15.4 million	NOx .....	-5.0 (t)
					SOx .....	-1.1 (t)
					BOD .....	-3.1 (t)
			Amount of risk avoidance effect (incidental effect)	¥1,226.6 million	PRTR substances .....	101.7 (t)
					(calculated with the conversion potential)	

## Chemical Substance Control Using IT System and Information Disclosure

### <Ricoh Group (Global)>

The Ricoh Group established RECSIS to monitor data on chemical substances used, discharged, and disposed of at business sites. RECSIS is designed to promote reduction in the use of chemical substances, to prepare materials for PRTR reporting, and to speedily respond to inquiries from customers around the world, original equipment manufacturers, and citizens' groups.



## TOPIC

Ricoh held a risk communication meeting, inviting residents of the city and people from the local community and municipal government.

### <Ricoh Unitechno Co., Ltd. (Japan)>

#### Discussions focused on environmental risk reduction

An “Environmental Communication Meeting” sponsored by Saitama Environment Counselor’s Association was held on January 24, 2007, at Ricoh Unitechno Co., Ltd. (Yashio City, Saitama). The meeting aimed to provide citizens, the municipal government, and companies with an opportunity to get together to share information on environmental contamination and chemical substances and promote mutual understanding, so that environmental risks could be reduced. A total of 28 people participated in the meeting, including local residents, environmental counselors (NPO), local government officials from Yashio City in Saitama, and Ricoh and Ricoh Unitechno employees. At the meeting, Ricoh’s sustainable environmental management and Ricoh Unitechno’s environmental conservation activities were presented, while participants observed assembly processes for copiers and facsimile machines. They seemed to be interested in the Ricoh Group’s original production process innovations, including the “pull cart type production line”

which reduces electricity consumption to 1/40 of the amount used in the conventional conveyor line.



Visit to the copier assembly line



Scene from the meeting

#### More environmental conservation know-how should be conveyed to the community.

At the exchange of opinion session that was held at the end of the meeting, many people supported the concepts in Ricoh’s sustainable environmental management, saying, “Many companies report their emission densities of xylene, toluene, etc., but Ricoh is reducing the absolute value it uses” (a local resident); “I was impressed to see that Ricoh has attained its environmental targets while achieving excellent results in business” (a local resident); and “The idea that environmental consideration goes with profit generation is great. I believe it is the job of environmental counselors and the municipal government to support the expansion of such excellent activities” (NPO). In the meantime, some requests were also made. One local resident said, “Excellent activities by only one company do not make Yashio City as a whole better. I would like Ricoh to convey more know-how to the local community,” while an officer from the municipal government said, “I want Ricoh Unitechno to issue an environmental site report for local residents.” Ricoh Unitechno intends to hold specific discussions on the opinions presented, which it regards as future issues, and incorporate them into its activities in and after fiscal 2007.