

### Mid-term Environmental Plan (Plan and Results)

A mid-term plan has been set up through which we promote measures to implement environmental management to tackle both environmental and economic issues.

#### New mid-term environmental plan established for fiscal 2005–2008.

In order to further promote our environmental management in terms of both environmental and economic issues, we have established “Double Eco-Efficiency” as our corporate vision for 2010. This means that we are striving to double our eco-efficiency, which is defined as company value divided by environmental impact, as compared with our fiscal 2000 statistics. Specifically, in order to realize this target, we have established a new mid-term environmental plan. We now prioritize our “Measures to Prevent Global Warming,” “Minimization of Chemical Risks” and “Initiatives Toward a Sound Material-cycle Society.”

The critical importance of measures to prevent global warming has been further emphasized by the implementation of the Kyoto Protocol; correspondingly, we have established a scenario through which we can achieve our objectives and actively promote these goals across the Group.

In terms of minimizing chemical risks, we also make every effort to reduce our total discharge of Volatile Organic Compounds (VOC) into the atmosphere.

With regard to our efforts to stimulate a sound material-cycle society, we have upgraded our target to promote Level 2: Zero Waste Disposal in terms of trying to reduce our general emission volumes.

#### Results from Fiscal 2004

As one of the main social shifts in fiscal 2004, the Kyoto Protocol is now in effect. Konica Minolta has been trying to reduce its CO<sub>2</sub> emissions by establishing objectives at each site. Moreover, we have begun to create a scenario to ensure the entire Group attains this objective since our corporate responsibility to do so has steadily increased.

In terms of the “Initiative Towards a Sound Material-cycle Society,” major progress has been made, such as attainment of Level 1: Zero Waste Disposal by five sites, including two chemical plants for which it was remarkably difficult to attain the objective, and attainment of Level 2: Zero Waste Disposal for the first time

by three sites. Regarding the “Minimization of Chemical Risks,” our results have exceeded targets, such as the phasing out of chloroform earlier than planned and reductions in atmospheric emissions of dichloromethane. In terms of “Information Disclosure,” Community Environmental Briefings are held and Site Reports have been issued continuously, while environmental data on 19 manufacturing sites is available via the Internet.

New Mid-term Plan			
	New Policy Areas	Mid-term Environmental Plan Objectives (Fiscal 2005–2008)	Objectives for Fiscal 2005
Environmental Management	Promoting consistent management and effective activities throughout the entire Group	2005: Complete Group ISO 14001 certification for all Japanese companies in the Group 2005: Establish global environmental management system 2006: Install global environment/safety information management system 2006: Start operation of Group environmental education system	<ul style="list-style-type: none"> <li>Multi-site ISO 14001 certification for all Japanese companies in the Group</li> <li>Establish the global environmental management system</li> <li>Establish Group environmental education system</li> </ul>
	Purification of contaminated soil and groundwater	Promote purification of soil and groundwater, understand its effects, and implement review	<ul style="list-style-type: none"> <li>Undertake monitoring and understand the actual status, then implement measures in accordance with the status</li> </ul>
	Introduce indicators to facilitate quantitative assessment of environmental management levels	2007: Make use of environmental management indicators	<ul style="list-style-type: none"> <li>Set up environmental management indicators</li> </ul>
	Utilization of environmental accounting for management	2006: Make use of rules for environmental investments 2007: Establish an automated aggregation system for environmental accounting	<ul style="list-style-type: none"> <li>Test the rule for environmental investments</li> <li>Establish specifications and introduction plan for the environmental accounting aggregation system</li> </ul>
Creation and Provision of Environmentally Sound Products	Reducing the environmental impact of products by adopting an eco design	2005: Set up indicators for each product's environmental efficiency (Set targets based on indicators for product environment efficiency in fiscal 2006)	<ul style="list-style-type: none"> <li>Set product environmental efficiency</li> </ul>
	Reduction in environmental impact of products through Green Procurement	2005: Establish analysis system 2006: Introduce certification system for chemicals used in the product	<ul style="list-style-type: none"> <li>Establish an analysis system for chemicals used</li> </ul>
Measures to Prevent Global Warming	Reducing greenhouse gas emissions by business companies	2010: Reduce CO <sub>2</sub> emissions for Konica Minolta Group in Japan by 7% compared to fiscal 1990 (Objectives for reduction in CO <sub>2</sub> emissions for overseas manufacturing sites to be set in fiscal 2005) (Objectives for reduction of CO <sub>2</sub> emissions through physical distribution to be set in fiscal 2005)	<ul style="list-style-type: none"> <li>Create a scenario for achieving the objectives for reduction of CO<sub>2</sub> emissions by the Group</li> </ul>
Reducing Environmental Risks Through Enhanced Chemical Management	Phasing out hazardous chemicals	2008: Reduce total atmospheric emissions of Volatile Organic Compounds (VOC) (risk conversion) by 70% compared to fiscal 2000 2008: Atmospheric emissions of dichloromethane: 106.5 t or less 2008: Atmospheric emissions of methanol: 53 t or less 2008: Atmospheric emissions of ethyl acetate: 249 t or less 2008: Atmospheric emissions of methyl ethyl ketone: 22 t or less 2010: 1,2-dichloroethane phased out (excluding raw materials) 2005: Phasing out of poly vinyl chloride (PVC) in product packaging materials (except film sealing tape)	<ul style="list-style-type: none"> <li>Reduce total atmospheric emissions of Volatile Organic Compounds (VOC) (risk conversion) by 60% compared to fiscal 2000</li> <li>Atmospheric emissions of dichloromethane: 144 t or less</li> <li>Atmospheric emissions of methanol: 75 t or less</li> <li>Atmospheric emissions of ethyl acetate: 263 t or less</li> <li>Atmospheric emissions of methyl ethyl ketone: 26 t or less</li> <li>Usage of 1,2-dichloroethane: 3.5 t or less (excluding raw materials)</li> <li>Phasing out of poly vinyl chloride (PVC) in product packaging materials (except as film sealing tape)</li> </ul>
	Phasing out all specific heavy metals (lead, hexavalent chromium, cadmium, mercury)	2005: Phasing out RoHS-designated products 2007: Phasing out products other than RoHS-designated products as well	<ul style="list-style-type: none"> <li>RoHS-designated products: Phasing out specified heavy metals</li> <li>Products other than RoHS-designated products: Phasing out specified heavy metals from new products</li> </ul>
Efforts Towards the Creation of a Recycling-Oriented Society	Realizing zero waste disposal	2007: “Level 2: Zero Waste Disposal” <sup>*2</sup> attainment at all production sites in Japan (Reduction by 30% per basic sales unit at all production sites) (Objectives for realizing “zero waste disposal” at overseas production sites to be set in fiscal 2005)	<ul style="list-style-type: none"> <li>Draw up plan to attain “Level 2: Zero Waste Disposal”<sup>*2</sup> and implement activities accordingly</li> </ul>
Promoting Information Disclosure	Active information disclosure and communication with stakeholders	2005: Publish data on 28 manufacturing sites in Japan through the Internet 2007: Disclose information on overseas manufacturing sites	<ul style="list-style-type: none"> <li>Publish data on 28 manufacturing sites in Japan through the Internet</li> <li>Draw up site risk communication guidelines</li> </ul>

\*1 Level 1 attainment criteria: Recycle at least 90% of waste, reduce landfill to 5% of total waste and reduce external fees for waste treatment by more than 90% (cf. fiscal 1998, or fiscal 1999 for certain items)

\*2 Level 2 attainment criteria: Recycle the volume of waste discharged externally by 30% per unit of sales compared to fiscal 2001

Results for Fiscal 2004			
Policy Areas	Fiscal 2004		See Page(s)
	Objectives	Results	
Environmental Management	<ul style="list-style-type: none"> <li>Group ISO 14001 certification for all Japanese companies in the Group (excluding distributors)</li> </ul>	<ul style="list-style-type: none"> <li>Expanded multi-site certification to 31 Japanese companies across 61 sites</li> </ul>	36–37
	<ul style="list-style-type: none"> <li>Implement management in accordance with “New Guidelines for Surveying and Handling Soil Contamination”</li> <li>Review of measure benefits at all target sites at least once</li> </ul>	<ul style="list-style-type: none"> <li>Benefits of the measures were reconfirmed at all target sites, and the purification plan was reviewed</li> </ul>	38
	<ul style="list-style-type: none"> <li>Introduce a system of environmental performance indicators</li> </ul>	<ul style="list-style-type: none"> <li>Consideration was given to environmental results evaluation, but its reflection in the results evaluation of business companies has been postponed. (Environmental management indicators continue to be considered)</li> </ul>	—
	<ul style="list-style-type: none"> <li>Introduce environmental investment criteria for use with new capital investments</li> </ul>	<ul style="list-style-type: none"> <li>Consideration of environmental investment criteria using rules for converting environmental impacts and risks into monetary values has been promoted, but it has not reached the introductory stage, and consideration is ongoing</li> </ul>	—
Creation and Provision of Environmentally Sound Products	<ul style="list-style-type: none"> <li>Finalize suitable environmentally sound design indicators</li> </ul>	<ul style="list-style-type: none"> <li>Investigation and studies of product environment efficiency have been promoted, but it has not reached the estimation stage yet, and consideration is ongoing</li> </ul>	42–45
	<ul style="list-style-type: none"> <li>Establishment and implementation of Konica Minolta Green Procurement Guidelines</li> </ul>	<ul style="list-style-type: none"> <li>Konica Minolta Green Procurement Guidelines were established, followed by implementation by the business companies</li> </ul>	
Measure to Prevent Global Warming	<ul style="list-style-type: none"> <li>Establish new plans to reduce emission of greenhouse gases per business company / common function company</li> <li>Establish new plans for reduction in energy use for each site</li> <li>Conduct third party audits of emissions for each site</li> </ul>	<ul style="list-style-type: none"> <li>New plans to reduce emission of greenhouse gases based on the product's LCA per business company, and reduction measures were implemented</li> <li>New plans for reduction in energy use were established per site, and reduction measures were implemented</li> <li>Based on the Kyoto Protocol coming into effect, the Group's objectives were reviewed, and creation of a reduction scenario has been started by the Group</li> </ul>	46–47
	<ul style="list-style-type: none"> <li>Arrange emissions registers for each of our business and common function companies</li> </ul>	<ul style="list-style-type: none"> <li>Consideration of an implementation format for a trading system has been promoted, but deliberations are ongoing</li> </ul>	
Reduction in Environmental Risks Through Management of Chemicals	<ul style="list-style-type: none"> <li>(Atmospheric emissions)</li> <li>Total dichloromethane: 169 t</li> <li>Phasing out emission of DMF (N,N-dimethylformamide) (Amounts used)</li> <li>1,2-dichloroethane: 8 t (excluding raw materials)</li> <li>Phase out use of formalin</li> </ul>	<ul style="list-style-type: none"> <li>(Atmospheric emissions)</li> <li>Total dichloromethane: 161.5 t</li> <li>Phased out emission of DMF (N,N-dimethylformamide) (Amounts used)</li> <li>1,2-dichloroethane: 3.4 t, which represents achievement of target (excluding raw materials)</li> <li>Phased out use of formalin</li> <li>Phased out use of chloroform six year earlier than planned (application within the Group)</li> </ul>	48–49
Efforts Towards the Creation of a Sound Material-Cycle Society	<ul style="list-style-type: none"> <li>Propose and implement specific measures to reduce water consumption per site</li> <li>Level 1: Zero Waste Disposal<sup>*1</sup> attainment at 8 sites (all sites) in Japan</li> </ul>	<ul style="list-style-type: none"> <li>Reduction measures were established and implemented per site</li> <li>Level 1<sup>*1</sup> attained by 5 business sites</li> <li>Level 2<sup>*2</sup> attained by 3 business sites</li> </ul>	50–51
Promoting Information Disclosure	<ul style="list-style-type: none"> <li>Disclose information on all Japanese production sites within the Group via the Internet</li> </ul>	<ul style="list-style-type: none"> <li>Disclosed information by 8 sites of business companies and 11 sites of affiliates</li> </ul>	52–53