

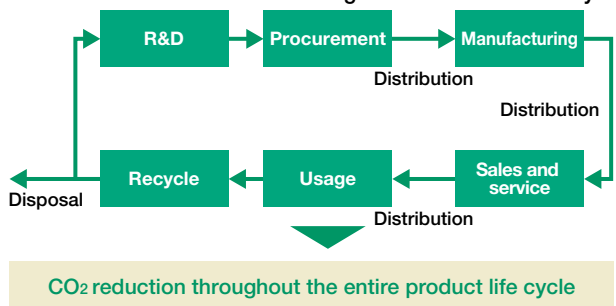
Preventing Global Warming

Konica Minolta believes that the prevention of global warming is an important social responsibility of a manufacturer, and is working to reduce CO₂ emissions throughout the product life cycle.

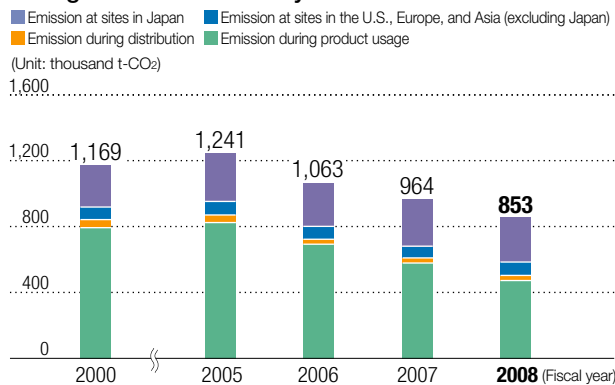
Basic Concept

Recognizing that the prevention of global warming is an important responsibility of a manufacturer, Konica Minolta is taking steps to reduce CO₂ emissions throughout the entire product life cycle. In order to achieve CO₂ reduction targets for all stages of the product life cycle, the company has set targets in four areas: emissions from production and R&D sites in Japan, emissions from production sites in the U.S., Europe, and Asia (excluding Japan), emissions during distribution, and emissions during product usage. Measures have been implemented in each of these areas.

Reduction of CO₂ Emissions throughout the Product Life Cycle



Changes in Product Life Cycle CO₂ Emissions



Future Targets

Based on the Medium-Term Environmental Plan 2015, Konica Minolta will work to further reduce CO₂ emissions starting in fiscal 2009. In addition to the established targets for reducing CO₂ emissions in the areas of production, distribution, and product usage, targets have also been set for the sales and service stages. By expanding targeted areas, the Group is further strengthening its initiatives for the prevention of global warming. (See page 11.)

Targets and Results for Fiscal 2008

In order to achieve the fiscal 2008 target of an 18% reduction in CO₂ emissions compared to fiscal 2000 throughout the product life cycle, Konica Minolta needed to reduce CO₂ emissions to as much as 957,000 tons. In fact, the Group succeeded in reducing CO₂ emissions throughout the product life cycle to 853,000 tons, achieving a 27% decrease compared to fiscal 2000. Moreover, all targets set for the four areas mentioned above were achieved.

Initiatives for Products

Development of Color MFPs with Substantial Energy-Saving Performance

Konica Minolta Business Technologies, Inc., a core business company in the Group, has developed and released color multi-functional peripherals (MFPs) that boast substantial energy-saving performance. The MFPs feature numerous unique technologies, including a toner with a lower fusing temperature, and IH fusing technology that reduces power consumption during standby mode. (See page 21.)

Targets and Results for Fiscal 2008

Targets	Results	Target achieved
Reduce CO ₂ emissions over the product life cycle by 18% compared with fiscal 2000 (957,000 t-CO ₂)	853,000 t-CO ₂ (Reduce CO ₂ emissions by 27% compared with fiscal 2000)	✓
Reduce CO ₂ emissions from all Group production and R&D sites in Japan to 296,000 t-CO ₂	269,000 t-CO ₂	✓
Reduce CO ₂ emissions from production sites in the U.S., Europe and Asia to 101,000 t-CO ₂	81,000 t-CO ₂	✓
Reduce CO ₂ emissions during distribution to 34,000 t-CO ₂	31,000 t-CO ₂	✓
Reduce CO ₂ emissions during product usage to 526,000 t-CO ₂	472,000 t-CO ₂	✓

Initiatives at Production Sites

Energy Conservation Support Program

Konica Minolta has implemented the Energy Conservation Support Program to reduce CO₂ emissions at its production sites.

The program employs internal experts in plant engineering, production line design and energy management to production sites. They check diverse matters, including the status of energy management, utility facilities such as air conditioners or boilers, production equipment, and specifications of equipment and systems. These experts then propose measures adapted to each site for conserving energy usage. The experts and staff at the sites use these proposals to simulate the energy-saving effect and draw up plans to implement the ideas.

In fiscal 2008, with two more sites in China and one site in the U.S., the program has been implemented at five sites in total.



Konica Minolta Business Technologies (Wuxi) Co., Ltd.



Konica Minolta Opto (Dalian) Co., Ltd.

Initiatives at Distribution

Promoting a Modal Shift

Konica Minolta has been promoting a modal shift for the long-distance transportation of products and parts, switching from aircraft and trucks to ships, railways and other means that emit less CO₂.

When transporting its business information products internationally, the company normally uses marine transportation, but on occasion air transportation was necessary. Through efforts to increase demand forecasting accuracy and to review inventory management systems, Konica Minolta aims to reduce the frequency of air transportation use and reduce inventories.

Improving Distribution Routes and Systems

Konica Minolta is reducing CO₂ emissions from its distribution processes by proactively restructuring its logistics facilities around the world. In June 2008, for example, the company consolidated two logistics centers for business information products, one in Germany and the other in the Netherlands, at a new location in Emmerich, Germany, to serve all of Europe. Through such restructurings, the company aims to shorten the overall transport distance in its logistics operations Group-wide, while expanding the scope of direct customer delivery areas.

TOPICS

New Building at Osakasayama Site Receives Award as an Environmentally Sound Structure

In April 2008, Konica Minolta Opto, Inc. completed the construction of a new building at the Osakasayama Site in Osaka, Japan. It won the second annual Osaka Sustainable Building Special Award for fiscal 2008, which is awarded by the Osaka prefectural government.

Konica Minolta used the latest energy conservation technologies when designing and constructing the new building. The new building at Osakasayama Site has the following environmentally friendly features:

- Best-in-class energy-saving transformers and air conditioners to reduce CO₂ emissions
- Sandwich panels for outer walls and double-pane insulating glass in windows
- Greenery on the roof to counter heat-island effects
- A courtyard on the top floor to let natural light into the building, reducing the electric energy to use for lights



New building at Osakasayama Site



Natural light enters from the courtyard on the top floor.