

# Environmental Activities of Fiscal 2001

## Nitto Denko Environmental Conservation Activities Plan (Voluntary Plan)

“The environment outlining its plans for environmental conservation (Voluntary Plan)” drawn up in 1993 serves as the guideline for specifically promoting environmental conservation activities. All plants and divisions are continuing their efforts in accordance with the plan.

### Achievement of Fiscal 2001 Voluntary Plan

Results of Voluntary Plan 1 “reduction of industrial waste” and 3 “prevention of air pollution” were just about satisfactory, but unfortunately it appears that it will be difficult to achieve the targets for “prevention of global warming.” Along with continuing to

reduce consumption of energy per product unit, we will continue to work on reducing value of industrial waste ratio and amount of solvents used.

#### Targets/achievement

#### Voluntary Plan

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#### To reduce waste

Waste caused in connection with production activities does not only involve waste of resources, but problems with disposal as well. Along with promoting reduction of industrial waste by improving yield, we are also working on recycling industrial waste.

Recycling rate: 98% or more by the end of fiscal 2002  
Value of industrial waste ratio\* (compared with fiscal 2000): 2-point reduction in fiscal 2002, 5 point reduction in fiscal 2005

For recycle rate, an aim that can achieve the target is established, and we try to clear the fiscal 2002 targets concerning value of industrial waste ratio as well.

$$\text{*Value of industrial waste ratio} = \frac{\text{Value of industrial waste (material cost and treatment cost of industrial waste)}}{\text{Product amount}} \times 100$$

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#### To prevent global warming

CO<sub>2</sub> (carbon dioxide) is increased by burning fossil fuels, thereby causing global warming. We promote energy saving to improve consumption of energy per product unit, and aim for reduction of CO<sub>2</sub> emission.

\*Consumption of energy per product unit: Amount of fuel and electric power used converted to crude oil is called “consumption of energy.” “Consumption of energy per product unit” is amount of energy used per product unit.

Consumption of energy per product unit (compared with 1990): 20% improvement by fiscal 2002

As of 2001, results for consumption of energy per product unit concerning targets have not improved. The reason for this could be a reduction of product unit due to production and price reduction due to economic recession and lack of energy saving measures at some plants.

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#### For prevention of air pollution

A lot of organic solvents are used for manufacturing adhesive tape, which is our mainstay business. When organic solvents volatilize into the atmosphere they cause photochemical oxidants and are also said to be a remote cause of acid rain and global warming. We are actively involved in reducing the amount of organic solvents released into the atmosphere.

Organic solvent emission volume (compared with 1998): 50% reduction by fiscal 2002

Reduction of organic solvent emission has been proceeding smoothly and it appears that targets will be achieved. We will also reduce the amount of solvents used by making solvent-free adhesive tape.

#### Voluntary Plan

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#### International standards for environmental protection

We have obtained ISO 14001 certification, which as an international standard for environmental conservation, at our domestic plants. We are also working on obtaining certification for the entire Nitto Denko Group, and are working on reducing environmental load based on an environmental management system.

Our domestic production bases are continuing to improve environmental management by applying ISO 14001 and are working on introducing (obtaining and continuing certification) of ISO 14001 at our overseas manufacturing bases as well.

#### Voluntary Plan

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#### Aiming for global activities

Overseas Nitto Denko Group companies are also working for environmental conservation just like the domestic companies.

We are carrying out environmental conservation on the same level as for domestic companies based on “10 environmental matters to be considered for overseas business expansion” indicated by Keidanren in the “Global Environment Charter.”