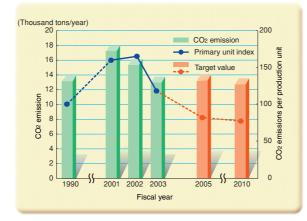
<Major energy saving measures taken in fiscal 2003>

- 1. Upgrading of air-cooling equipment
- 2. Review of heat exhaust system application
- 3. Enhancing efficiency of lighting fixtures

Trends in CO₂ emission and primary unit index



Usage breakdown of electric and various types of fuel (CO2 conversion)



Trends in final landfill amount

2 Waste reduction

We have set ourselves the goal of reducing our final landfill amount by 90% from the fiscal 1998 levels by fiscal 2010, and are working on further reduction of waste to achieve our goal of zero emissions.

We reduced our final landfill amount in fiscal 2003 by 86% from the fiscal 1998 levels. In addition, we are engaged in our efforts for waste control measures to ultimately reduce our final landfill amount to zero.

<Major waste reduction measures taken in fiscal 2003>

- 1. Thermal recycling (RDF) of waste plastics
- 2. Thermal recycling (RPF) of vinyl and paper waste
- 3. Recycling of personal computers

(Thousand tons/year) 700 600 Final landfill amountIndex Target value 60 Index 20 100 1998 1999 2000 2001 2002 2003 2005 \$\frac{1}{2010}\$ Fiscal year

■Illegal dumping prevention (law compliance)

As to the status of disposal, we confirm the manifest (control manifest for industrial waste), periodically inspect waste disposal plants and confirm that waste disposal is properly performed.

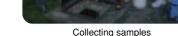




Inspection of industrial waste disposers

Solution Prevention of soil and ground water pollution

Soil and ground water is one of the natural environment having close relations with our lives. Anti-Soil Pollution Law was enacted in February 2003. Out of the object substances of this law, Trichloroethylene which is a volatile organic compound was completely abolished in 1992 and 1,1,1-Tricholoethane in 1996, Dichloromethane in 2002, respectively. Also, we implemented voluntary inspection of soil and ground water, and to date no contamination has been found. Further, the investigation was conducted based on the law due to the sale of a factory, and confirmed no contamination.



for underground water survey

■ Result of soil investigation at Yagi-Memorial Information & Communication Systems Research Laboratory (in Sendai)

Object substance Maximum amount detected (extraction)		Standard amount	Maximum amount detected (content)	Standard amount				
Fluorine and its compound	Less than 0.13 mg/ℓ	0.8 mg/ℓ	Less than400 mg/kg	4000 mg/kg				
Lead and its compound	Less than 0.005 mg/ℓ	0.01 mg/ℓ	Less than 15 mg/kg	150 mg/kg				

Result of surface gas investigation at Yagi-Memorial Information & Communication Systems Research Laboratory (in Sendai)

Object substance	Maximum amount detected (extraction)	Standard amount	
1,1-Dichloroethylene	Less than 0.1 ppm	0.1 ppm	
Sis-1,2-Dichloroethylene	Less than 0.1 ppm	0.1 ppm	
1,1,1-Trichloroethane	Less than 0.1 ppm	0.1 ppm	
Trichloroethylene	Less than 0.1 ppm	0.1 ppm	

Survey results for substances covered under the PRTR law social report

Based on the "Law Concerning Assessment of the Amounts of Specific Chemical Substances Released into the Environment and Promotion of Management Improvement (PRTR Law)" enacted in April 2001, it is required to report chemicals handled in the amount more than 1 ton in fiscal 2003. Out of 354 substance groups subject to reporting, the substances we handled in the amount of more than 100 kg were 4 substance groups, totaling 1,050 kg, which represented the reduction by 55% year-on year. By introducing no lead solder, we reduced the use of lead and advanced reduction planning of the amount released, and it was found that there were no object substances to be reported to the government.

*PRTR: Pollutant Release and Transfer Register

The list below shows the substances handled in the amount of more than 100 kg in total by the entire company (Unit: kg/year)

Chemical	Amount handled	Amount consumed	Amount recycled	Amount transferred	Amount released
Hydrogen fluoride and its soluble salt	410.00	0.00	0.00	390.00	20.00
Toluene	254.28	1.56	0.00	57.04	195.68
Lead and its compound	203.41	23.67	179.25	0.49	0.00
Xylene	181.58	12.33	0.00	12.90	156.35

Reduction of the environmental load from chemical substances

To reduce the amount of chemicals released into atmosphere, water, soil, etc. and to cut down environmental load, we are exercising our voluntary management on approximately 1,400 chemical substances by categorizing them into 3 types; "to be prohibited", "to be reduced" and "to be managed". Especially, for the substances "to be prohibited", we have set ourselves the goal of making the amount released to the environment be "zero" by fiscal 2005, and for the substances "to be reduced", reducing by 30% (from fiscal 2000 levels) by fiscal 2005 in the amount released into the environment. In fiscal 2003, we completely abolished the substances "to be prohibited", and for the substances "to be reduced" we achieved, ahead of the schedule, our goal of 40% reduction from fiscal 2000 levels by reducing the usage and switching to alternate substances, etc.

OPrevention of odors

In cases where there are no regulations or restrictions concerning odors, we have voluntarily set our own control standard and periodic inspections are implemented not to cause inconveniences to residents in the local community.



Collecting samples for voluntary investigations

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