



Implementing risk-reduction measures to protect the environment.

We are conducting a variety of risk-reduction measures to protect the environment in and around our manufacturing sites. Besides purifying the soil and groundwater, we are working to restrict emissions of dioxins and environmental endocrine disrupters and to totally eliminate use of substances that contribute to depletion of the ozone layer. As always, our overall aim is to achieve the most harmonious possible balance between our manufacturing activities and the global environment.

Fujitsu was again involved in no legal violation, lawsuit or accident concerning the environment in fiscal 2001.

Soil and Groundwater Purification

Soil purification efforts aimed at removing volatile organic compounds continue, as in the previous year, at certain sites of Fujitsu and affiliated companies where concentrations exceed regulatory limits. We conducted soil surveys on the sites of three of our demolished company operations and one operation to be demolished, based on ordinances and internal standards (regulations concerning soil and groundwater surveys) to confirm the soil pollution conditions. One of the sites is now conducting soil purification treatment, and the results of the survey based on ordinances have already been reported to the prefectural governor. We take the Bill against Soil Pollution*1 into consideration in our plant surveys and conduct evaluations of contamination to determine whether measures are required. We also survey flooring materials from demolished buildings for contamination in order to determine the contamination conditions and introduce countermeasures when required to prevent the spread of any contamination to the environment.



Purification equipment (Fujitsu Kawasaki Plant)

Dioxin Emission Prevention Measures

The Fujitsu Group as a whole (5 Fujitsu plants and 10 affiliates with incineration facilities) has discontinued use of its incineration facilities and is continuing efforts to prevent generation of dioxins. Among the plants concerned, the Fujitsu Numazu Plant completed demolition of its incineration facility in March 2001, in accordance with the provisions of a Notice Concerning Prevention of Health Damage from Dioxins*2 upon Waste Incineration Facility Demolition (Urgent Measure) issued by the (former) Ministry of Health and Welfare in September 2000.



Demolition of an incinerator chimney interior (Fujitsu Numazu Plant)

Total Elimination of Ozone-depleting Substances

We have completely eliminated the use of ozone-depleting substances in our manufacturing operations. We have also taken measures to ensure that no CFC coolants used in air-conditioning or refrigeration equipment leak into the atmosphere. When equipment of this type is renovated, we make use of the opportunity to replace the coolants with non-CFC alternatives.

Results Concerning Ozone-depleting Substance Elimination

Ozone-depleting substance	Date of elimination
Cleaning CFCs (CFC-113, CFC-115)	End of 1992
Carbon tetrachloride	End of 1992
1,1,1-trichloroethane	End of October 1994
Substitute CFCs (HCFCs)	End of 1999

Environmental Facility Status Surveys

Since fiscal 2000, we have conducted surveys of all the Fujitsu Group manufacturing and R&D facilities. These surveys, which are based on internally developed standards, assess the environmental maintenance and management status at these sites. The aim of the program is to improve the levels of environmental facility maintenance to prevent accidents and achieve stable plant operation.

Main Survey Criteria

- Reporting system for environmental facility management status
- Overview of each facility (capacity, processing systems)
- Facility operation management status (daily supervision, maintenance, emergency countermeasures)
- Degradation countermeasures (checks on degree of aging, renovation plans, etc.)
- Survey/countermeasure status for environmental risks
- Measures for waste product management and energy saving

Anticipated Program Benefits

- Accident prevention
- Stable plant operation
- Improvement in ongoing supervision levels
- Exchange of information and views among those responsible for environmental facility management within Fujitsu Group

Results of Fiscal 2001 Surveys

Fujitsu facility management surveys: 4 sites
Domestic affiliates: 3 companies

Working Toward Paperless Operations

We are promoting reductions in paper consumption through initiatives such as the use of PC networks and online manuals. In fiscal 2001, we cut paper use by approximately 50 million A4 sheets.

Paper Use Reduction Results (Estimated A4-sheet Equivalents) (Unit: million sheets)

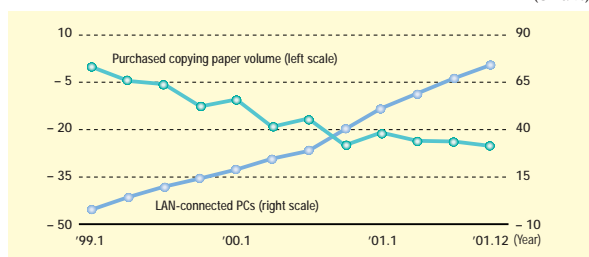
Fiscal 2000 use	750
Fiscal 2001 use	700
Reduction achieved	50

Fujitsu and domestic affiliates

An internal survey has demonstrated a clear trend toward a decline in the volume of paper purchased as the number of computers linked to company networks has risen. We believe this to result from the conversion of internal documents and administrative procedures to electronic formats. Future plans call for increased electronic formatting of sales communications to promote further reductions.

The Relationship between LAN Systems and Paper Purchasing Volumes

(Unit: %)



Measures against Environmental Endocrine Disruptors

We are evaluating annual usage by our manufacturing plants and R&D facilities of 65 chemicals designated as exerting a potentially harmful effect on the human endocrine system to facilitate future reduction. We are managing the usage volume even of particles of these substances at all our plants and affiliates. In fiscal 2001, the volume of environmental endocrine disruptors used by the Group was approximately 90,613 kg. The volume used by Fujitsu was approximately 183.1 kg, an 11.4% reduction compared with fiscal 2000.

Usage Status of Environmental Endocrine Disruptors

(Fujitsu Group Fiscal 2001)

Substance	Substance number*	Amount used (kg)	Principal uses
Bisphenol A	37	83469.3	Raw material for resins
Di-n-butyl phthalate	40	6589.2	Shaping agent
Alkyl phenol (from C5 to C9) Nonyl phenol, 4-octylphenol	36	534.1	Degreasing agent for painted parts
2-ethylhexyl phthalate	38	20.2	Adhesive for affixing electronic parts
Permethrin	59	0.4	Insecticide for mites
Total		90613.1	

Usage Status of Environmental Endocrine Disruptors (Fujitsu Fiscal 2001)

Substance	Substance number*	Amount used (kg)	Principal uses
Alkyl phenol (From C5 to C9) Nonyl phenol, 4-octylphenol	36	91.5	Degreasing agent for painted parts
Di-n-butyl phthalate	40	73.0	Adhesive for test items
2-ethylhexyl phthalate	38	17.1	Adhesive for affixing electronic parts
Bisphenol A	37	1.6	Raw material for resins
Total		183.1	

* The results tallied here are for 11 Fujitsu sites and 11 domestic and 4 overseas affiliates.

* The usage status covers all substances used by Fujitsu and the Fujitsu Group.

* Substance number in the Ministry of Environment publication "Strategic Programs on Environmental Endocrine Disruptors '98" (SPEED '98)



eco.fujitsu.com/en/info/eco20010814_e.html

Water/Air/Noise/Vibration Quality Countermeasures

Nineteen Fujitsu Group and five Fujitsu sites exceeded our internal standards for control of air, noise, vibration and water quality conditions in fiscal 2001. None of them violated relevant laws or ordinances.

Main countermeasures

Violations of Internal Standards

Violations of internal standards	Countermeasures
Noise generation by dust removal equipment (58 dB internal standard 55 dB)	Constructed a soundproofing wall.
Fluorine value exceeding the internal standard	Added new removal equipment.
Excessive volume of n-hexane extraction	Checked kitchen grease traps and standardized the service manual.