

Plant Environmental Preservation

In the battle against water, air, noise and vibrations, independent efforts by our bases to protect their sites and surrounding environment are achieving results.

Policy

Every site and plant promotes environmental preservation activities to reduce the environmental burden on its site and the surrounding environment as well as complying with relevant laws and regulations. Besides monitoring the effects of our manufacturing activities on water and air, noise and vibrations and working to improve them, we use the water necessary for plant maintenance with care.

Structure

Water quality (discharged water) standard values (example) Laboratories, Atsugi area (Unit: mg/l)			
Item (extracted)	National standard*	Atsugi City Sewerage Ordinance	Internal standard
Hydrogen ion concentration	5.0 ~ 9.0	5.0 ~ 9.0	5.2 ~ 8.8
Cadmium and its compounds	0.1	0.1	0.01
Arsenic compounds	0.1	0.1	0.05
Cyanogens compounds	1	1	0.5
Lead and its compounds	0.1	0.1	0.05
All chromium	2	2	0.5
Copper	3	3	1
Zinc	5	3	1
Iron	10	10	2
Type of phenol	5	0.5	0.4
Manganese	2	2	0.5
Fluorine	8	8	7

* Sewerage Law

Ongoing activities based on independent standards for each site

Fujitsu promotes individual efforts toward plant environmental preservation, with independent standards established by each site. Examples include advanced fluorine treatment equipment for discharged water introduced in laboratories (Atsugi area) that has succeeded in maintaining a voluntary standard value of below 7 mg/l.

Results

Water

Fujitsu Group water input/output				
Volume used	Fujitsu (14,473,239m ³)	Domestic Group (11,946,198m ³)	Overseas Group (2,712,189m ³)	Total volume 29,131,626m ³
Volume discharged	Fujitsu (13,432,381m ³)	Domestic Group (9,773,073m ³)	Overseas Group (2,106,964m ³)	Total volume 25,312,418m ³
(Unit: m ³ /year)				
	Fujitsu	Domestic Group	Overseas Group	Total
Water supply	6,349,934	4,736,810	2,161,902	13,248,646
Industrial water	7,153,596	2,043,017	238,927	9,435,540
Underground water	969,709	5,166,371	311,360	6,447,440

Emergency response

The Kumagaya Plant conducts periodic drills assuming unexpected accidents to confirm its countermeasures.



A CFC leakage treatment drill in progress (Kumagaya Plant)

Air

NOx

NOx is generated in fuel combustion, etc., mainly by plants, sites and automobiles, but also by home-use combustion equipment.

SOx

SOx is generated when primary fossil fuels such as oil and coal and sulfur contained in them burn simultaneously.

(Unit: tons/year)

	Fujitsu	Domestic Group	Overseas Group	Total
NOx	149	368	288	805
SOx	114	186	288	588

Total elimination of ozone layer depletion substances

We have completely eliminated the use of

substances that contribute to depletion of the ozone layer in our manufacturing operations (parts cleaners and solvents). We have also taken measures to ensure that no CFC coolants used in air-conditioning or refrigeration equipment leak into the atmosphere. When renovating such equipment, we take the opportunity to replace the coolants with non-CFC alternatives.

Results for ozone-depleting substance elimination

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

Effective use of water resources

The Fujitsu Group encourages consideration of water resources and positively promotes recycling and reuse.



Case example of rainwater reuse