Reducing Chemical Substances Emissions

Response to the PRTR Law (Fujifilm and its domestic affiliates)

In addition to those substances that must be reported under the PRTR Law (Pollutant Release and Transfer Register Law), Fujifilm controls another 10 items on a voluntary basis, primarily substances specified by the Japan Chemical Industry Association as requiring autonomous monitoring, and has been endeavoring to reduce those emission on consolidated basis. Data (usage volume, atmospheric emissions volume, emission into public water, volume going into sewage water, volume moved outside of facilities, and volume recycled) on substances used in amounts of one ton or more per year by Fujifilm and its domestic affiliates may be found on the following Fujifilm website.

URL http://www.fujifilm.co.jp/corporate/environment/preservation/site/atmosphere/prtr.html
(in Japanese only)

Annual changes in atmospheric emissions of VOCs (hundred tons/year)

	FY2013	FY2014	FY2015	FY2016	FY2017
Japan	6.6	6.8	6.5	5.9	6.4
Overseas	1.4	1.6	1.8	1.6	1.6
Group total	**8.0**	**8.4**	**8.3**	**7.5**	**8.8**

Storage and management of devices/equipment containing PCBs* (FY 2017)

Types of equipment containing PCBs	Unit	Storing and managing amount	
		Japan	Group total
High voltage transformers	Quantity	11	29
High voltage condensers	Quantity	6	96
PCB oil waste, etc.	kg	1,000	1,000
Sludge, etc.	m^3	0.0	0.0
Fluorescent lamp stabilizers	Quantity	13,562	15,783
Low voltage condenser excluding fluorescent lamps	Quantity	116,947	116,947
Low voltage transformer	Quantity	0	0
Rags	kg	981	981
Other devices	Quantity	174	174

*Excludes PCB in low concentration

URL http://www.fujifilm.co.jp/corporate/environment/preservation/site/pcb.html
(in Japanese only)

Reductions in VOCs atmospheric emissions* (Fujifilm non-consolidated)

Category	Name of substance	Reduction (tons)	Reduction rate in comparison to previous fiscal year (%)
Substances requiring reporting under the PRTR Law	Dichloromethane	3	6
Substances voluntarily controlled by the company	Methyl alcohol	34	20
	Ethyl acetate	–22	–24
	Methyl ethyl ketone	–5	–14
	Acetone	15	77

*Reduction in volumes in FY2017 compared with actual levels in previous year

Pollution Prevention Measures

Annual changes in volume of atmospheric emissions (tons/year)

		FY2013	FY2014	FY2015	FY2016	FY2017
SOx emissions	Japan	21	22	9	19	15
	Overseas	4	6	10	8	8
	Group total	**25**	**28**	**19**	**27**	**23**
NOx emissions	Japan	416	394	424	369	288
	Overseas	74	61	78	96	119
	Group total	**490**	**455**	**502**	**465**	**407**
Soot particle emissions	Japan	4.8	4.2	3.1	2.3	2.4
	Overseas	6.9	1.0	4.2	4.1	10.3
	Group total	**11.7**	**5.2**	**7.3**	**6.4**	**12.7**
Atmospheric emissions of specified CFCs*	CFC-11	0.00	0.21	0.21	0.00	0.16
	CFC-12	0.00	0.01	0.00	0.00	0.01

*Group total, below the limit of detection = 0

Annual changes in water contaminant burden & emissions*1 (tons/year)

		FY2013	FY2014	FY2015	FY2016	FY2017
Total amount of COD*2	Japan	85.2	82.3	82.1	69.0	54.5
	Overseas	31.3	57.0	67.3	55.5	49.6
	Group total	**116.5**	**139.3**	**149.4**	**124.5**	**104.1**
Total amount of BOD*3	Japan	43.5	38.5	37.1	30.2	24.3
	Overseas	1.6	10.1	16.6	0.5	0.1
	Group total	**45.1**	**48.6**	**53.7**	**30.7**	**24.4**
Total amount of nitrogen emissions	Japan	246.5	223.3	232.3	170.9	181.7
Total amount of phosphorous emissions	Japan	3.4	5.3	4.2	1.4	2.7

*1 Effluent release into public water bodies
*2 COD (Chemical Oxygen Demand): An indicator of water pollution. COD indicates the amount of oxygen consumed when water-borne pollutants (primarily organic contaminants) are oxidized upon the introduction of an oxidant.
*3 BOD (Biochemical Oxygen Demand): BOD is a way to measure the degree of water pollution, and indicates how much oxygen in the water is being used by organisms to decompose contaminants by looking at the reduction in oxygen in the water.

Surveying and remediating soil and underground water pollution
(FUJIFILM Corporation and its domestic affiliates/Fuji Xerox and its domestic affiliates)

The Fujifilm Group autonomously conducts environmental surveys on soil and underground water pollution. Regarding substances that are used at manufacturing facilities and that are subject to environmental limits set by regulations, the Group rigorously manages the usage and storage of such substances and monitors the concentrations of such substances in underground water. We are prepared to deal with any unforeseen pollution incidents in a timely fashion.

URL http://www.fujifilm.co.jp/corporate/environment/preservation/site/leakage/
(in Japanese only)

URL http://www.fujixerox.co.jp/company/csr/stakeholder/environment/target.html
(in Japanese only)

Legal Compliance Measures

Legal compliance and reports on complaints in FY2017

In 2017, there were no violations of environment-related laws and no customer complaints, and no incidents.

	Japan	Overseas	Group total
Number of legal violations (number of cases solved)	0 (0)	0 (0)	0 (0)
Number of complaints (number of cases solved)	0 (0)	0 (0)	0 (0)
Number of incidents (number of cases solved)	0 (0)	0 (0)	0 (0)