

## Annual Report 2010

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# Social Report

## Employees

### Number of employees

	2010
(Dainippon Screen) Men	1,981
Women	143
Total	2,124
(Entire Screen Group)	4,679

### Number of employees by age group (Dainippon Screen, Japan only)

	20-29	30-39	40-49	50+	Total
As of March 31, 2009	252	524	1,034	522	2,332
As of March 31, 2010*	283	452	975	414	2,124

\* Calculations based on certified financial statements for the fiscal year ended March 31, 2010

### Average age of regular employees (Dainippon Screen)

	2009	2010
Men	43.0	42.0
Women	36.9	36.4
All employees	42.6	41.6

### Average number of years of service per regular employee (Dainippon Screen)

	2009	2010
Men	18.6	17.6
Women	14.7	14.1
All employees	18.4	17.4

### Average annual salary per employee (Dainippon Screen)

	2009	2010
All employees	8,331,000	6,719,000

\* Rounded down to the nearest ¥1,000

## Diversity

### Number of female employees (Dainippon Screen)

	2007	2008	2009	2010
General	44	57	68	64
Clerical	122	116	111	79
Temporary	3	2	7	0
Total	169	175	186	143

\* Calculations based on certified financial statements for the fiscal year ended March 31, 2010

### Reemployment of staff past retirement age

	2010
Number of employees at the company reemploying staff	84

### Ratio of men to women among management and executives (Dainippon Screen)

	2010		
	Core management (managers and specialist personnel)	Upper core management (divisional manager and above)	Directors, corporate officers and corporate auditors
Total	671	18	19 (4 directors, 13 corporate officers and 2 auditors) Two outside directors and two outside corporate auditors in addition to the above
Men	668	18	19
Women	3	0	0
Ratio of female staff	0.4%	0%	0%

### Ratio of non-Japanese managers and executives (Dainippon Screen)

	2010		
	Core management (managers and specialist personnel)	Upper core management (divisional manager and above)	Directors, corporate officers and corporate auditors
Total	671	18	19
Japanese	670	18	19
Non-Japanese	1	0	0
Ratio of non-Japanese staff	0.1%	0%	0%

## Number of non-Japanese employees at business and production sites in Japan (Dainippon Screen)

	2010
Non-Japanese regular employees	20
Ratio of non-Japanese regular employees	0.9%

## Employment creation

### Number of new university graduates employed (Dainippon Screen)

	2009	2010
Total	80	62

### Number of mid-career employees hired (Dainippon Screen)

	2009	2010
Total	3	1

## Work-life balance

### Number of employees on child-care/family health care leave (Dainippon Screen)

		2007	2008	2009	2010
Number of employees on child-care leave (Year leave started)	Men	2	1	1	0
	Women	8	8	6	11
	Total	10	9	7	11
Number of employees on family health care leave	Men	3	0	0	0
	Women	1	0	0	2
	Total	4	0	0	2

\* One female employee resigned during child-care leave.

\* Seven male employees have taken child-care leave and three have taken reduced work-hours for child-care.

\* A system is in place that provides male employees with five days of special paid leave when their wife gives birth.

### Ratio of employees on child-care leave (Dainippon Screen)

(%)

		2007	2008	2009	2010
Ratio of employees on child-care leave	Men	2.60	1.23	1.18	0
	Women*	100	100	100	100
	Total	12.05	10.23	7.69	14.29

\* Child-care leave is taken by all female employees for childbirth, so the rate of child-care leave takers among these female employees is recorded as 100%.

### Number of employees taking maternity leave (Dainippon Screen)

	2009	2010
Total	7	12

\* Term of leave: Statutory (six months prenatal, eight months postnatal)

\* Remuneration during maternity leave: Unpaid; however, 100% security by the Mutual Aid Society and Welfare Foundation, including maternity allowance

### Ratio of employees using paid leave (Dainippon Screen)

(%)

	2006	2007	2008	2009	2010
Ratio of employees using paid leave	70.8	70.98	72.8	70.4	58.5

\* Number of days paid annual leave: 23 (including non-statutory leave)

### Number of employees taking leave of absence for volunteer activities (Dainippon Screen)

	2009	2010
Total	6	8

## Promotion of right-person-right-job employment

FA applicants	Approximately 63 (cumulative total of eight previous applications)
Internships to other departments	2 (cumulative total since the introduction of the scheme in 2007)

## Career paths

Treatment	Human resource utilization
Flextime system	Self-enumeration system
Child support system	In-house inter-departmental transfer system
Performance-linked bonuses	Target management system
	In-house internship system

## Employee education

Training and self-development support system	Others
Rank-based education	Doctorate support system
Skills and knowledge education	Overseas study and training system
Engineer education	
Selective education	
Financial rewards system for employees who obtain qualifications	
Distance learning subsidy system	

## Occupational health and safety

### Number of Accidents and Incidents (entire Screen Group)

	2006	2007	2008	2009	2010
Accidents - Affiliates	12	7	7	4	2
Incidents - Affiliates	17	14	10	8	4
Accidents - Group companies	3	1	3	10	6
Incidents - Group companies	3	3	13	9	8
Accidents - Dainippon Screen	6	3	6	3	5
Incidents - Dainippon Screen	9	15	9	3	3
Incidents resulting in four or more days of lost work	7	7	3	2	4

### Occupational health and safety activities Targets and performance

	Targets	Results	Performance
Incidents resulting in four or more days of lost work	Up to two incidents	× (Not achieved)	4
Incidents points*	Up to 300 points	× (Not achieved)	400 points
Accidents or incidents - at customers	Up to seven incidents	× (Not achieved)	9
Fatal traffic accidents or incidents	Up to five incidents	× (Not achieved)	17
Periodic health examination	100%	○ (Achieved)	100%

\* Incidents points: An index used by the Dainippon Screen Group to indicate the gravity of incidents (indicating an aggregate of days of lost work and injuries)

### Ratio of Accidents and Incidents (Dainippon Screen)

	2006	2007	2008	2009	2010
Frequency of incidents (Dainippon Screen)	0.21	0.65	0	0	0
Average frequency of incidents during production	1.01	1.02	1.09	1.12	0.99
Average frequency of incidents during production of electrical machinery and equipment	0.40	0.37	0.39	0.48	0.46

\* The values for average frequency of incidents by type of business represent calendar years. For example, figures given as of March 31, 2006, are Dainippon Screen's frequency of incidents for fiscal 2005 (from April 1, 2005, to March 31, 2006), while the average by type of business indicate January 1, 2005, to December 31, 2006.

### Number of recipients of occupational health and safety education (entire domestic Screen Group)

	Education for new employees	Follow-up education for new employees	Management education	Foreman education	Supplementary foreman education
As of March 31, 2009	105	—	114	143	182
As of March 31, 2010	88	88	123	152	52

\* Follow-up education for new employees has been implemented from the fiscal year ended March 31, 2010.

## Compliance training

Seminars	Dainippon Screen	Number of recipients	Group companies	Number of recipients
	Compliance—general		432	Compliance—general
Appropriate contracting and temporary employment		52	Appropriate contracting and temporary employment	29
Interpretation of points from Japan's Subcontractor Act		45	Interpretation of points from Japan's Subcontractor Act	7
Insider trading regulations		51	Client information management	102
	Total	587	Total	163

## Patents

	2010
Number of patent applications (number of laid-open patents*1)	396
Number of patents granted (number of registered patents*2)	219
Number of employee inventions reviewed	69

\*1 Number of laid-open patents: The number of patents issued and laid open as public information by the Japan Patent Office as of March 31, 2010

\*2 Number of registered patents: The number of patents registered by the Japan Patent Office as patent rights as of March 31, 2010

## Awards and external assessment results (related to EHS)

### Related to occupational health and safety

Subjects		Organization	Name of initiative	Results
Head Office	March 2009	Kamigyo Fire Department, Kyoto City Fire Department	Excellent Independent Fire-Prevention Site	Awards
	October 2009	Kyoto Labour Bureau	Kyoto Zero-Disaster Three-Month Campaign	Achieved
Kumiyama Plant	October 2009	Kyoto Prefecture Traffic Safety Association	Safety Rally Kyoto	Awards
Kuze Plant	March 2009	South Fire Department, Kyoto City Fire Department	Excellent Independent Fire-Prevention Site	Mayor of Kyoto City Prize
Tech In Tech Co., Ltd.	October 2009	Kyoto Prefecture Traffic Safety Association	Safety Rally Kyoto	Gold prize (zero accidents and violations attained by 38 out of 3,800 companies)
FEBACS Co., Ltd.	October 2009	Kyoto Labour Bureau	Kyoto Zero-Disaster Three-Month Campaign	Achieved
	October 2009	Kyoto Labour Bureau	Kyoto Zero-Disaster Three-Month Campaign	Achieved

### Related to the environment

Subjects		Organization	Name of initiative	Results
Entire Screen Group	December 2009	Nikkei Inc.	Environmental Management Survey	125th position

### Other

Subjects		Organization	Name of initiative	Results
Tec Communications Co., Ltd.	August 2009	CONTOL UNION CERTIFICATIONS	FSC certification	Certified
FPD Equipment Company	April 2010	AU Optronics Corp.	2009 Best Equipment Supplier Award	Prize awarded
Media And Precision Technology Company	June 2009	Japan Electronics Packaging and Circuits Association	Fifth JPCA Award at JPCA show 2009	Prize awarded

# Environmental Report

\* Key for items with no particular comments  
 -: N/A  
 0: Less than 0.1

## Environmental management

### Acquisition of ISO/OHSAS by Group companies (Domestic)

As of March 31, 2010

		Number of employees	ISO9001	ISO14001	OHSAS18001
Manufacturing	Tech In Tech Co., Ltd.	103	Acquired	Acquired	Acquired
	Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	14		Acquired	Acquired
	Quartz Lead Co., Ltd.	66	Acquired	Acquired	Acquired
	FASSE Co., Ltd.	41	Acquired	Acquired	Acquired
	SOKUDO Co., Ltd.	104	Acquired	Acquired	Acquired
Services	MT Service Japan East Co., Ltd.	145	Acquired	Acquired	Acquired
	MT Service Japan West Co., Ltd.	116	Acquired	Acquired	Acquired
	SEBACS Co., Ltd.	171	Acquired	Acquired	Acquired
	FEBACS Co., Ltd.	68	Acquired	Acquired	Acquired
	MEBACS Co., Ltd.	37	Acquired	Acquired	Acquired
Others	Media Technology Japan Co., Ltd.	111		Acquired	Acquired
	Tec Communications Co., Ltd.	49	Acquired	Acquired	
	TRANSUP Japan Co., Ltd.	10		Acquired	Acquired
	INITOUT Japan Co., Ltd.	29		Acquired	
	S. Ten Nines Kyoto Co., Ltd.	104		Acquired	
	GERANT Co., Ltd.	14		Acquired	Acquired

### Acquisition of ISO/OHSAS by Group companies (Overseas)

		Number of employees	ISO9001	ISO14001	OHSAS18001
Manufacturing	Dainippon Screen Mt (Hangzhou) Co., Ltd.	91	Acquired	Acquired	
	Inca Digital Printers Ltd.	145	Acquired		
	Silicon Light Machines Corporation	19			
Others	D.S. North America Holdings, Inc.	3			
	Dainippon Screen Graphics (USA), LLC	42			
	S. Ten Nines California, LLC	11			
	DNS Electronics, LLC	223			
	Dainippon Screen (U.K.) Ltd.	39			
	Dainippon Screen (Deutschland) GmbH	117			
	Dainippon Screen (Nederland) B.V.	18			
	Dainippon Screen Singapore Pte. Ltd.	78			
	Dainippon Screen (China) Ltd.	85			
	Dainippon Screen Electronics (Shanghai) Co., Ltd.	118			
	Dainippon Screen Electronics (Taiwan) Co., Ltd.	205			
	DNS Feats (Taiwan) Co., Ltd.	34			
	Dainippon Screen (Taiwan) Co., Ltd.	15			
	Dainippon Screen (Australia) Pty. Ltd.	11	Acquired		
	Dainippon Screen (Korea) Co., Ltd.	86	Acquired		
	SOKUDO USA, LLC	5			
	Dainippon Screen Ireland Ltd.				
Dainippon Screen Italy S.R.L.					
Dainippon Screen Electronics France Sarl					
Dainippon Screen Israel Ltd.					
Screen Media Technology Ltd.					

### Environmental audit (Dainippon Screen)

	2010
Number of organizations subject to environmental audit	20
Number of sites where audits were implemented	8
Number of improvements recommended	47
Number of internal auditors	175
Number of training sessions for auditors	2
Number of participants	64

### Environmental audit (entire domestic Screen Group)

	2010
Number of organizations subject to environmental audit	35
Number of sites where audits were implemented	11
Number of improvements recommended	111
Number of internal auditors	232
Number of training sessions for auditors	2
Number of participants	103

## Legal compliance and reported complaints (entire domestic Screen Group)

The nitrogen component of discharge into public waterways at the Yasu site was 6.1mg/L, against a value agreed with Yasu City of 6.0mg/L. The cause of overshooting was failure to revise the Company's voluntary standard value after changes to the agreed value.

## EHS education (Dainippon Screen)

	Environmental	Safety
Basic courses	New employee training	New employee training
	New section manager training	New section manager training
	Training for all employees	Training for all employees
Management courses	Systems training	Systems training
	Internal auditor training	Internal auditor training
	Environmental impact assessor training	Risk assessor training Product risk assessor training
Courses by job function	Product designer training	Operator training
	Purchasing training	Special operator training
	Environmental facilities operator training	Administrative supervisor training
	Factory manager training	
	Waste management training	

## Program contents

	Date	Number of participants
Environmental foundation course—new employee course	April 1	88
Internal auditor skills improvement course	June 11, 12, 16	84
Management course—system-related course	April 7, 8	80
Management course—internal auditor course (internal auditor training)	November 24, 25	19
Management course—system-related course (environmental impact assessment, including products)	December 2	53
Green IT education <Green IT initiatives demanded by IT departments>	July 23	25
Management standards (Energy Saving Act) presentation meeting	November 20	18
Special lecture: "Introduction to case studies of initiatives at other company in response to the EuP (Energy Saving Act) directive"	December 21	20
In-house environmental seminar: "ISO50001 and the amended Energy Saving Act"	March 9	31

## Environmental accounting

### (Entire domestic Screen Group)

(Millions of yen)

Environmental protection costs	Category	Protection costs		Amount invested	
		2009	2010	2009	2010
1. Cost within business area	1. Pollution prevention Wastewater treatment facilities, air treatment facilities	583	<b>602</b>	0	<b>11</b>
	2. Environmental preservation Inverters, facilities for preventing global warming	49	<b>48</b>	41	<b>94</b>
	3. Resource circulation Appropriate waste disposal	102	<b>30</b>	38	<b>0</b>
2. Upstream/downstream costs	Recycled product business	524	<b>297</b>	0	<b>0</b>
3. Administration costs	Analysis and measurement, environmental management education	128	<b>174</b>	9	<b>1</b>
4. R&D costs	Development of environmentally-friendly products	1,607	<b>1,162</b>	—	—
5. Social initiative costs	Publishing Social and Environmental Report, environmental beautification initiatives	39	<b>30</b>	12	<b>0</b>
6. Costs associated with resolving environmental damages		63	<b>64</b>	0	<b>0</b>
Total		3,095	<b>2,407</b>	100	<b>106</b>

Environmental preservation effects	Category	Amount		Cost	
		2009	2010	2009	2010
Effects of reductions in volume of chemical substances used		1metric tons	<b>3metric tons</b>	4	<b>10</b>
Effects of reductions in amount of energy used		721metric tons of CO <sub>2</sub>	<b>9,171metric tons of CO<sub>2</sub></b>	18	<b>183</b>
Effects of reductions in volume of waste emissions		306metric tons	<b>431metric tons</b>	4	<b>5</b>
Effects of resource conservation Reuse of products and sale of paper and cardboard		16metric tons	<b>13metric tons</b>	681	<b>454</b>
Total				707	<b>652</b>

## Greenhouse gases

### CO<sub>2</sub> emissions for each plant and group company

(t)

Plant & office/group company	1991	2001	2006	2007	2008	2009	2010
<b>Domestic groups(Dainippon Screen+Domestic groups)</b>							
Dainippon Screen MFG. CO., LTD.							
Hikone Plant	27,535	23,618	11,393	12,279	16,043	20,468	<b>16,399</b>
Head Office/Nishikyogoku Office	2,848	1,779	1,486	962	945	903	<b>632</b>
Rakusai Site	4,620	7,010	5,978	6,535	6,011	5,325	<b>3,802</b>
Taga Plant	—	3,648	3,736	4,206	4,608	3,644	<b>451</b>
Yasu Plant	—	5,771	6,129	6,424	6,169	3,405	<b>1,718</b>
Kuze Plant	1,742	1,637	1,626	1,490	1,832	1,731	<b>1,128</b>
Kumiyama Plant	1,797	1,405	1,717	1,763	1,806	1,951	<b>1,521</b>
Ikebukuro/Kudan/Otsuka Offices	—	341	166	199	215	207	<b>16</b>
Total of plants and offices	38,542	45,209	32,231	33,858	37,629	37,634	<b>25,667</b>
Group companies(domestic)							
Tech In Tech Co., Ltd.	—	1,001	479	585	728	548	<b>433</b>
Quartz Lead Co., Ltd.	—	—	709	1,151	1,274	767	<b>714</b>
SEBACS Co., Ltd.	—	—	← Included in the Nishikyogoku Office →				<b>67</b>
Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	—	—	5	10	11	10	<b>8</b>
FEBACS Co., Ltd.	—	—	—	—	141	62	<b>154</b>
FASSE Co., Ltd.	—	—	—	—	—	—	<b>445</b>
SOKUDO Co., Ltd.	—	—	—	—	—	—	<b>2181</b>
Media Technology Japan Co., Ltd.	—	—	← Included in the Kuze Plant →				<b>54</b>
MT Service Japan West Co., Ltd.	—	—	—	—	43	44	<b>36.4</b>
MT Service Japan East Co., Ltd.	—	—	← Included in the Otsuka Office →				<b>12</b>
S.Ten Nines Kyoto Co., Ltd.	—	—	—	—	—	—	<b>41</b>
INITOUT Japan Co., Ltd.	—	—	—	—	—	—	<b>25</b>
Tec Communications Co., Ltd.	—	—	61	55	55	74	<b>83</b>
TRANSUP Japan Co., Ltd.	—	—	84	90	22	25	<b>29</b>
GERANT Co., Ltd.	—	—	—	—	—	—	<b>10</b>
MEBACS Co., Ltd.	—	—	—	—	—	—	<b>34</b>
DST Micronix Co., Ltd.	—	29,789	6,841	—	—	—	<b>—</b>
Laser Solutions Co., Ltd.	—	—	—	—	37	58	<b>—</b>
Total of group companies	0	30,790	8,179	1,891	2,274	1,530	<b>4,326</b>
Total of domestic groups	38,542	75,999	40,410	35,749	39,903	39,164	<b>29,993</b>
<b>Overseas group</b>							
Dainippon Screen Mt (Hangzhou) Co., Ltd.	—	—	—	—	327	266	<b>256</b>
Inca Digital Printers Ltd.	—	—	—	—	—	—	<b>374</b>
Dainippon Screen (Nederland) B.V.	—	—	—	—	—	—	<b>112</b>
Dainippon Screen (U.K.) Ltd.	—	—	—	—	—	—	<b>—</b>
Dainippon Screen Graphics (USA), LLC	—	—	—	—	—	—	<b>—</b>
Dainippon Screen (China) Ltd.	—	—	—	—	—	—	<b>87</b>
Dainippon Screen (Korea) Co., Ltd.	—	—	—	—	—	—	<b>67</b>
Dainippon Screen (Taiwan) Co., Ltd.	—	—	—	—	—	—	<b>17</b>
Dainippon Screen (Australia) Pty. Ltd.	—	—	—	—	—	—	<b>49</b>
Screen Media Technology Ltd.	—	—	—	—	—	—	<b>33</b>
Dainippon Screen (Deutschland) GmbH	—	—	—	—	—	—	<b>565</b>
Dainippon Screen Electronics (Taiwan) Co., Ltd.	—	—	—	—	—	—	<b>328</b>
Dainippon Screen Singapore Pte. Ltd.	—	—	—	—	—	—	<b>198</b>
DNS Electronics, LLC	—	—	—	—	—	—	<b>356</b>
Dainippon Screen Electronics (Shanghai) Co., Ltd.	—	—	—	—	—	—	<b>96</b>
DNS Feats (Taiwan) Co., Ltd.	—	—	—	—	—	—	<b>103</b>
Silicon Light Machines Corporation	—	—	—	—	—	—	<b>250</b>
S. Ten Nines California, LLC	—	—	—	—	—	—	<b>—</b>
Total of overseas groups	—	—	—	—	327	266	<b>2,889</b>

\* Basis for calculation: For the domestic Dainippon Screen Group, calculations are made using actual emissions factors by electric power suppliers for fiscal 2008, gained from a system of greenhouse gas emission quantitative calculations, reports and announcements based on the Act on Promotion of Global Warming Countermeasures.

For the overseas Dainippon Screen Group, calculations are based on the greenhouse gas protocol conversion factor announced for the year ended March 31, 2006.

\* A "—" indicates that the company is or was not within the scope of the environmental management system.

A "—" indicates that the company was not within the scope of the system because applicable businesses had not yet been established.

### Reduction measures targeting CO<sub>2</sub> emissions Major specific initiatives (2009)

Item	Plant	Reduction	
Results of CO <sub>2</sub> reductions due to the introduction of no-overtime days and cost cutting effect CO <sub>2</sub> reductions	At each plant	Cost-cutting results	Approximately 27.2 tCO <sub>2</sub> /month
		CO <sub>2</sub> reduction results	Approximately ¥60,800/month



## Low-emission vehicles

### Number of company vehicles and energy-efficient vehicles (entire domestic Screen Group)

	2006	2007	2008	2009	2010
Number of energy-efficient vehicles	38	64	143	145	<b>135</b>
Number of other vehicles	47	28	28	19	<b>7</b>
Target ratio of energy-efficient vehicles (%)	40	55	70	80	—
Actual ratio of energy-efficient vehicles (%)	44.7	69.6	83.6	88.4	<b>95.1</b>
Number of low-emission trucks in service*	—	—	—	—	<b>66</b>

\* TRANSUP Japan Co., Ltd., utilizes low-emission trucks for product transportation.

## Energy

### Direct/indirect energy consumption (Dainippon Screen)

(GJ)

	2001(base year)	2006	2007	2008	2009	2010
Direct energy consumption	990,307	740,946	791,035	896,502	919,606	<b>817,760</b>
Interim energy (electricity/air conditioning/moisture/nuclear power)	689,336	554,259	599,385	694,700	706,245	<b>662,600</b>

### Direct/indirect energy consumption (entire domestic Screen Group)

(GJ)

	2001(base year)	2006	2007	2008	2009	2010
Direct energy consumption	1,589,699	910,942	864,487	985,063	985,811	<b>931,229</b>
Interim energy (electricity/air conditioning/moisture/nuclear power)	1,030,988	666,378	643,772	750,746	744,844	<b>752,649</b>

## Chemical substances

### Data regarding substances subject to the PRTR Act (entire domestic Screen Group)

(t)

Substance name	Cabinet order number	Usage			
		2007	2008	2009	2010
Hexavalent chromium compound	69	—	—	—	—
Trivalent chromium compound	68	—	—	—	—
Xylene	63	0.3	0.3	0.2	<b>0.2</b>
Hydroquinone	254	0.2	—	—	<b>0</b>
Hydrogen fluoride and its compound	283	5.7	6.9	5.7	<b>2.8</b>
Ethylene glycol	43	0.4	0.5	0.3	<b>0</b>
Poly (oxyethylene) = nonylphenyl ether	307	—	—	—	—
Nickel	231	—	—	—	—
Nickel compound	232	—	—	—	—
Hydrazine	253	—	0.3	0.3	<b>0.3</b>
Formaldehyde	310	—	—	0.1	<b>0</b>
2-aminoethanol	16	—	—	0.1	<b>0.2</b>
Toluene	227	—	—	0.1	<b>0.1</b>
Total		6.6	8	6.8	<b>3.6</b>

Substance name	Amount of movement											
	Emissions to the atmosphere				Emissions to the water system				Amount of movement of wastes			
	2007	2008	2009	2010	2007	2008	2009	2010	2007	2008	2009	2010
Hexavalent chromium compound	—	—	—	—	—	—	—	—	—	—	—	—
Trivalent chromium compound	—	—	—	—	—	—	—	—	—	—	—	—
Xylene	0.3	0.3	0.2	<b>0.2</b>	0	0	0	<b>0</b>	0	0	0	<b>0</b>
Hydroquinone	0	—	—	<b>0</b>	0	—	—	<b>0</b>	0.2	—	—	<b>0</b>
Hydrogen fluoride and its compound	0	0	0	<b>0</b>	0	0	0	<b>0</b>	5.7	6.9	5.7	<b>2.8</b>
Ethylene glycol	0	0	0	<b>0</b>	—	0	0	<b>0</b>	0.4	0.5	0.3	<b>0</b>
Poly (oxyethylene) = nonylphenyl ether	—	—	—	—	—	—	—	—	—	—	—	—
Nickel	—	—	—	—	—	—	—	—	—	—	—	—
Nickel compound	—	—	—	—	—	—	—	—	—	—	—	—
Hydrazine	—	0	0	<b>0</b>	—	0	0	<b>0</b>	—	0.3	0.3	<b>0.3</b>
Formaldehyde	—	—	0	<b>0</b>	—	—	0	<b>0</b>	—	—	0.1	<b>0</b>
2-aminoethanol	—	—	0	<b>0</b>	—	—	0	<b>0</b>	—	—	0.1	<b>0.2</b>
Toluene	—	—	0.1	<b>0.1</b>	—	—	—	<b>0</b>	—	—	0	<b>0</b>
Total	0.3	0.3	0.3	<b>0.3</b>	0	0	0	<b>0</b>	6.3	7.7	6.5	<b>3.3</b>

### PCB processing (entire domestic Screen Group)

Type	Number of units
High-voltage capacitors	43
Low-voltage capacitors	197
Fluorescent light ballasts	178
High-voltage transformers	1
Reactors	3

## Amount of substances used and in circulation

### Total amount of substances used (by resource type) (Dainippon Screen)

(t)

	2007	2008	2009	2010
Total amount of substances used	17,668	15,680	17,875	7,498
Chemical substances	7	8	7	4

### Total amount of substances used (by resource type) (entire domestic Screen Group)

(t)

	2007	2008	2009	2010
Total amount of substances used	17,932	15,680	18,333	7,755
Chemical substances	7	8	7	4

## Waste/recycling

### Total volume of waste emissions (Dainippon Screen)

(t)

	2006	2007	2008	2009	2010
Total volume of waste emissions	1,321	1,282	1,080	939	479
Volume of recycled waste	1,300	1,269	1,072	937	475
Recycling rate (%)	98.4%	99.0%	99.2%	99.7%	99.2%
Volume of waste for final disposal	21	13	8	2	4

### Total volume of waste emissions (entire domestic Screen Group)

(t)

	2006	2007	2008	2009	2010
Total volume of waste emissions	2,086	1,501	1,313	1,098	647
Volume of recycled waste	1,942	1,481	1,304	1,095	629
Recycling rate (%)	93.1%	98.6%	99.2%	99.6%	97.2%
Volume of waste for final disposal	144	20	9	3	18

\* Total volume of waste emissions does not include volume of valuable resources.

### Total volume of waste emissions by site and Group company

(t)

Site/Group company	2006	2007	2008	2009	2010
Hikone Plant	338	326	424	474	308
Head Office/Nishikyogoku Office	47	33	18	15	18
Rakusai Site	194	147	128	114	40
Taga Plant	105	125	92	74	0
Yasu Plant	263	264	162	67	33
Kuze Plant	170	120	59	45	19
Kumiyama Plant	180	247	178	132	60
Ikebukuro/Kudan/Otsuka Offices	24	19	19	18	2
Total of plants and offices	1,321	1,281	1,080	939	479
Tech In Tech Co., Ltd.	22	23	23	51	11
Quartz Lead Co., Ltd.	86	186	191	91	29
SEBACS Co., Ltd.	← Included in the Nishikyogoku Office →				11
Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	2	1	1	1	1
FEBACS Co., Ltd.	—	—	3	3	4
FASSE Co., Ltd.	—	—	—	—	79
SOKUDO Co., Ltd.	—	—	—	—	3
Media Technology Japan Co., Ltd.	← Included in the Kudan Office →				8
MT Service Japan West Co., Ltd.	—	—	5	6	5
MT Service Japan East Co., Ltd.	← Included in the Otsuka Office →				2
S. Ten Nines Kyoto Co., Ltd.	—	—	—	—	0
INITOUT Japan Co., Ltd.	—	—	—	—	0
Tec Communications Co., Ltd.	8	9	8	7	5
TRANSUP Japan Co., Ltd.	1	1	1	1	7
GERANT Co., Ltd.	—	—	—	—	0
MEBACS Co., Ltd.	—	—	—	—	2
DST Micronix Co., Ltd.	647	—	—	—	—
Laser Solutions Co., Ltd.	—	—	2	1	—
Total of group companies	656	10	11	9	167
Total of domestic groups	1,977	1,291	1,091	948	647

\* A "—" indicates that the company is or was not within the scope of the environmental management system.

A "—" indicates that the company was not within the scope of the system because applicable businesses had not yet been established.

### Breakdown of external waste emissions

(t)

Volume of valuable resources	290.8	Waste oil (special)	7.7
Volume of waste sludge	223.9	Ceramics, glass	8.3
General-purpose paper	34.3	Waste alkali (special)	25.3
Waste plastic	80.2	Electric wiring, PCBs	0.4
Waste acid (special)	72.4	Burnable waste	3.2
Cardboard	31.0	Waste film	13.1
Cloth, wood scrap	48.8	Batteries	0.6
Waste alkali	12.0	Waste acid	2.2
Scrap metal	10.8	Waste fluorescent lighting	1.4
Paper	54.9	Other waste liquids (special)	0
Waste oil	8.3	Others	7.2

**Breakdown of valuable resources indicated above**

(t)

Cardboard	84.9	Film	0
Metals	44.6	Glass (wafers)	0.4
General-purpose paper	53.0	Magazines, catalogs	55.7
Polyvinyl chloride	9.7		

**Recycling rates by site**

(%)

Hikone Plant	99.6	TechInTech Co., Ltd.	94.3
Head Office	96.0	Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	40.6
Rakusai Site	100.0	Quartz Lead Co., Ltd.	99.2
Taga Plant	—	FASSE Co., Ltd.	84.8
Yasu Plant	100.0	SOKUDO Co., Ltd.	99.6
Kuze Plant	99.9	MT Service Japan East Co., Ltd.	98.1
Kumiyama Plant	99.7	MT Service Japan West Co., Ltd.	100.0
Ikebukuro/Kudan/Otsuka Offices	99.2	SEBACS Co., Ltd.	99.2
		FEBACS Co., Ltd.	99.9
		MEBACS Co., Ltd.	98.9
		Media Technology Japan Co., Ltd.	98.7
		Tec Communications Co., Ltd.	93.9
		TRANSUP Japan Co., Ltd.	99.9
		INITOUT Japan Co., Ltd.	100.0
		S. Ten Nines Kyoto Co., Ltd.	88.5
		GERANT Co., Ltd.	100.0
Total of domestic groups			98.1

\* Scope: Domestic sites and Group companies that have certified environmental management systems.

 **Green purchasing ratio**
**Green purchasing ratio by site**

	2006	2007	2008	2009	2010
Hikone Plant	98.7%	98.7%	99.2%	99.7%	99.2%
Head Office/Nishikyogoku Office	98.6%	97.5%	98.4%	99.6%	99.8%
Rakusai Site	98.6%	98.9%	98.8%	100.0%	93.8%
Taga Plant	100.0%	100.0%	100.0%	100.0%	—
Yasu Plant	97.4%	97.4%	99.6%	100.0%	100.0%
Kuze Plant	99.9%	99.7%	100.0%	99.9%	100.0%
Kumiyama Plant	99.6%	99.7%	99.8%	99.8%	100.0%
Ikebukuro/Kudan/Otsuka Offices	99.0%	98.6%	99.8%	100.0%	100.0%
Tech In Tech Co., Ltd.	99.7%	99.1%	98.5%	99.0%	96.6%
Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	100.0%	100.0%	100.0%	99.5%	100.0%
Quartz Lead Co., Ltd.	98.7%	98.4%	99.4%	99.7%	100.0%
FASSE Co., Ltd.	—	—	—	—	82.4%
SOKUDO Co., Ltd.	—	—	—	—	100.0%
MT Service Japan East Co., Ltd.	—	—	—	—	100.0%
MT Service Japan West Co., Ltd.	—	—	99.9%	100.0%	100.0%
SEBACS Co., Ltd.	—	—	← Included in the Nishikyogoku Office →		93.0%
FEBACS Co., Ltd.	—	—	99.9%	100.0%	85.8%
MEBACS Co., Ltd.	—	—	—	—	89.8%
Media Technology Japan Co., Ltd.	—	—	—	—	100.0%
Tec Communications Co., Ltd.	98.3%	98.7%	100.0%	100.0%	91.3%
TRANSUP Japan Co., Ltd.	100.0%	100.0%	100.0%	100.0%	98.6%
INITOUT Japan Co., Ltd.	—	—	—	—	100.0%
S. Ten Nines Kyoto Co., Ltd.	—	—	—	—	100.0%
GERANT Co., Ltd.	—	—	—	—	65.7%
Total of domestic groups	97.9%	98.5%	99.2%	99.7%	97.8%

\* A "—" indicates that the company is or was not within the scope of the environmental management system.

A "—" indicates that the company was not within the scope of the system because applicable businesses had not yet been established.

 **Water**
**Volume of water resources used (Dainippon Screen)**
(m<sup>3</sup>)

	2006	2007	2008	2009	2010
Service water	435,459	427,970	419,674	300,447	221,176
Industrial water	2,079,989	2,089,763	2,093,547	2,070,497	1,673,865
Ground water	—	—	—	—	—
Total	2,515,448	2,517,733	2,513,221	2,370,944	1,895,041

**Total volume of water emissions (Dainippon Screen)**
(m<sup>3</sup>)

	2006	2007	2008	2009	2010
Public water areas	2,487,294	2,500,836	2,481,510	2,362,653	1,894,633

**Volume of water resources used (entire domestic Screen Group)** (m<sup>3</sup>)

	2006	2007	2008	2009	2010
Service water	458,466	454,937	433,507	310,555	<b>243,870</b>
Industrial water	3,674,389	2,089,763	2,093,547	2,070,497	<b>1,673,865</b>
Ground water	—	—	—	—	—
Total	4,132,855	2,544,700	2,527,054	2,381,052	<b>1,917,735</b>

**Total volume of water emissions (entire domestic Screen Group)** (m<sup>3</sup>)

	2006	2007	2008	2009	2010
Public water areas	4,101,170	2,527,282	2,495,343	2,372,761	<b>1,917,327</b>

**BOD and COD measurements (Dainippon Screen)** (mg/l)

	2006	2007	2008	2009	2010
BOD	1.4	1.4	1.4	1.4	<b>1.6</b>
COD	2.4	2.4	2.4	2.4	<b>2.8</b>

## Air quality

**SO<sub>x</sub> and NO<sub>x</sub> emissions (entire domestic Screen Group)** (t)

	2006	2007	2008	2009	2010
SO <sub>x</sub> emissions	18.1	14.6	0.08	0.02	<b>0.0</b>
NO <sub>x</sub> emissions	10.1	6.3	4.9	5.8	<b>4.6</b>

## Transport

**CO<sub>2</sub> emissions from logistics operations by mode of transport (Dainippon Screen)** (t)

	2007	2008	2009	2010
Vehicles	1,185	993	899	<b>579</b>
Ships	8	14	33	<b>14</b>
Railroads	2	2	2	<b>2</b>

**Reduction in CO<sub>2</sub> emissions resulting from modal shift in product transport (Dainippon Screen)**

	Number of shipments		CO <sub>2</sub> reductions	
	2009	2010	2009	2010
Marine transport	262	<b>130</b>	166metric tons	<b>76metric tons</b>
Rail transport	105	<b>98</b>	11metric tons	<b>11metric tons</b>

**Number of trucks involved in transportation**

	2009	2010
Number of trucks involved in product transportation	5,170	<b>2,969</b> (57% compared with levels during the fiscal year ended Mar. 31, 2009)
Number of trucks used for coastal shipping (to Kyushu)	262	<b>153</b> (58% compared with levels during the fiscal year ended Mar. 31, 2009)

**Environmental consideration for transportation indirect materials and product containers and packaging (fiscal year ended March 31, 2010)**

Initiative	Result
Reuse of cushioning materials at Hikone CRC Parts Center	Reuse of 684kg of cushioning materials (79% compared with the year ended March 31, 2009)
Promotion of new packaging (SPA) using reinforced cardboard as packaging for the transportation of semiconductor fabrication equipment	Reduction of 220 tons in wooden materials The rate of reduction in total use of wooden materials rose to 19.9%, from 9% for the fiscal year ended March 31, 2009.

## Reducing environmental impacts of products

**Percentage of total sales and number of green products (environmentally-friendly products) (Dainippon Screen)**

	2007	2008	2009	2010
Number of green products	9	40	56	<b>63</b>
Percentage of total sales(%)				
Target	10	20	30	<b>40</b>
Performance	31	45	45	<b>72</b>

\* Green products (environmentally-friendly products): Products are compared against a standard product and are certified as green products if they score better by ten points or more and pass five categories: Energy saving, resource conservation, reuse or recycling, safety and chemical substance management, and information availability.

Visit the following website to learn more about certified green products: <http://www.screen.co.jp/environmentE/products.html>

# Material Balance

