

Annual Report 2015 Appendix CSR Data Sheets

SCREEN Group
Fiscal year ended March 31, 2015

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Social Report

Notes: 1. All years shown are for the accounting year ended March 31 of the year shown.

2. Major subsidiaries refer to SCREEN Semiconductor Solutions Co., Ltd., SCREEN Graphic and Precision Solutions Co., Ltd., SCREEN Finetech Solutions Co., Ltd., SCREEN Manufacturing Support Solutions Co., Ltd. and SCREEN Business Support Solutions Co., Ltd.

Employees

Number of employees

(Person)

	SCREEN Holdings and major subsidiaries			SCREEN Group
	Men	Women	Total	
2011	1,937	130	2,067	4,732
2012	1,954	135	2,089	4,890
2013	1,995	135	2,130	4,954
2014	2,084	144	2,228	4,968
2015	2,072	140	2,212	5,082

Number of employees by age group (SCREEN Holdings and major subsidiaries)

(Person)

	20-29	30-39	40-49	50+	Total
As of March 31, 2011	242	405	949	471	2,067
As of March 31, 2012	220	388	920	561	2,089
As of March 31, 2013	198	398	886	648	2,130
As of March 31, 2014	184	431	868	745	2,228
As of March 31, 2015	180	421	852	759	2,212

Average age of regular employees (SCREEN Holdings and major subsidiaries)

(Years)

	2011	2012	2013	2014	2015
Male	42.9	43.6	44.2	44.6	45.3
Female	37.1	38.1	39.0	39.6	40.3
All employees	42.5	43.3	43.8	44.3	45.0

Average length of service per regular employee (SCREEN Holdings and major subsidiaries)

(Years)

	2011	2012	2013	2014	2015
Male	18.2	19.0	19.4	19.8	4.3
Female	14.2	15.2	16.0	16.5	5.6
All employees	17.9	18.7	19.2	19.6	4.4

Note: Figures for the fiscal year ended March 31, 2015 decreased due to the transfer of employees to the newly established subsidiaries (major subsidiaries) accompanying the change to a holdings structure.

Average annual salary per employee (SCREEN Holdings and major subsidiaries)

(Yen)

	2011	2012	2013	2014	2015
All employees	7,095,000	9,110,000	8,374,000	7,619,000	8,455,000

Note: Rounded down to the nearest ¥1,000.

Employee turnover (SCREEN Holdings and major subsidiaries)

(Person)

		Use of preferential early retirement system				
		Own volition	Company decision	Employment transfer	Other	
2013	Male	11	5	0	8	3
	Female	0	1	0	0	0
	Total	11	6	0	8	3
2014	Male	8	8	0	35	3
	Female	0	1	0	0	0
	Total	8	9	0	35	3
2015	Male	10	23	0	47	2
	Female	2	1	0	1	0
	Total	12	24	0	48	2

Note: Excludes retirees.

Diversity

Number of female employees (SCREEN Holdings and major subsidiaries) (Person)

	2011	2012	2013	2014	2015
On professional career track	58	59	58	66	69
On clerical career track	72	76	77	78	71
Temporary	0	0	0	0	0
Total	130	135	135	144	140

Note: Figures indicate number of direct hires.

Ratio of male and female employees by post (SCREEN Holdings and major subsidiaries) (Person)

	Management post	(Of whom, General Managers or higher)	(Of whom, Corporate Officers)	Directors
2015	Total	796	99	2
	Male	790	99	2
	Female	6	0	0
	Ratio of female staff	0.75%	0.00%	0.00%

Note: Directors are for SCREEN Holdings only.

Ratio of non-Japanese employees by post (SCREEN Holdings and major subsidiaries) (Person)

	Management post	(Of whom, General Managers or higher)	(Of whom, Corporate Officers)	Directors
2015	Total	796	99	7
	Japanese	793	97	7
	Non-Japanese	3	2	0
	Ratio of non-Japanese staff	0.38%	2.02%	0.00%

Note: Directors are for SCREEN Holdings only.

Number of non-Japanese employees at business and manufacturing sites in Japan (SCREEN Holdings and major subsidiaries) (Person)

	2011	2012	2013	2014	2015
Non-Japanese regular employees	20	19	19	22	18
Ratio of non-Japanese regular employees	0.9%	0.9%	0.9%	1.0%	0.8%

Employment of people with disabilities (SCREEN Holdings and major subsidiaries) (Person)

	2012	2013	2014	2015
Number employed	41	43	43	42
Employment ratio	1.86%	1.96%	2.01%	2.00%

Note: The statutory ratio through the fiscal year ended March 31, 2013, was 1.80%, and from April 1, 2013, 2.00%.

Reemployment of staff past retirement age (SCREEN Holdings and major subsidiaries) (Person)

	2011	2012	2013	2014	2015
Number of employees at the company reemploying staff	84	63	62	52	44

Employment creation

Number of new graduates hired (SCREEN Holdings and major subsidiaries) (Person)

	2011	2012	2013	2014	2015
University graduates	Male	1	22	35	41
	Female	0	0	3	8
	Total	1	22	38	49

Number of mid-career employees hired (SCREEN Holdings and major subsidiaries) (Person)

	2011	2012	2013	2014	2015
University graduates	Male	0	17	12	3
	Female	0	0	0	0
	Total	0	17	12	3

Hiring of New Graduates (SCREEN Holdings and major subsidiaries) (%)

Percentage of people hired in 2010 who were still employed in April 2013	100
Percentage of people hired in 2011 who were still employed in April 2014	100
Percentage of people hired in 2012 who were still employed in April 2015	89.5

Note: New graduates are those who joined the company on April 1 or October 1 of each year.

Work-life balance

Number of employees taking childcare leave or using a short working hours system due to childcare (SCREEN Holdings and major subsidiaries)

(Person)

		2011	2012	2013	2014	2015
Number of employees taking childcare leave (By year leave started)	Male	0	0	0	0	2
	Female	16	7	9	9	9
	Total	16	7	9	9	11
Number of employees using a short working hours system due to childcare	Male	1	0	1	1	0
	Female	50	47	42	47	50
	Total	51	47	43	48	50

Notes: 1. So far, nine male employees have taken childcare leave and four have opted for reduced work-hours for childcare.
2. A system is in place that provides male employees with five days of special paid leave when a child is born.

Ratio of employees taking childcare leave (SCREEN Holdings and major subsidiaries)

(%)

		2011	2012	2013	2014	2015
Ratio of employees taking childcare leave	Male	0	0	0	0	3.08
	Female*	100	100	100	100	100
	Total	17.98	9.52	11.11	10.23	14.86

* Childcare leave is taken by all female employees who are giving birth, so the ratio among eligible female employees is recorded as 100%.

Number of employees taking maternity leave (SCREEN Holdings and major subsidiaries)

(Person)

	2011	2012	2013	2014	2015
	14	8	8	10	9

Notes: 1. Term of leave: Statutory (six weeks prenatal, eight weeks postnatal).
2. Remuneration during maternity leave: Unpaid; however, 100% security by the Mutual Aid Society and Welfare Foundation, including maternity allowance.

Number of employees taking family care leave (long term/short term) or using a short working hours system due to family care (SCREEN Holdings and major subsidiaries)

(Person)

		2011	2012	2013	2014	2015
Number of employees taking family care leave (long term)	Male	0	0	0	0	1
	Female	0	0	0	0	0
	Total	0	0	0	0	1
Number of employees taking family care leave (short term)	Male	2	1	0	1	2
	Female	0	0	0	0	0
	Total	2	1	0	1	2
Number of employees using a short working hours system due to family care	Male	0	0	1	0	0
	Female	0	0	0	0	0
	Total	0	0	1	0	0

Percentage of annual paid leave taken by employees (SCREEN Holdings and major subsidiaries)

(%)

	2011	2012	2013	2014	2015
Percentage of annual paid leave taken	57.8	74.7	72.2	70.9	71.5

Human resource development

Career paths

Human resource utilization	Work-life balance
Self-reporting of career plan	Multiple career tracks within the professional, semi-professional and clerical career tracks Flextime system Support to help employees satisfy both work and family responsibilities
In-house inter-departmental transfer	
Internal recruiting	
Objective-based management	
In-house internship	
Multi-faceted evaluation for leaders	

Employee education

Training and self-development support system	Others
New appointee training	Doctorate support Domestic and overseas study and training
Role-based training	
Skills and knowledge training	
Engineer training	
Selective training	
Career development support	
Financial rewards for employees who obtain qualifications	

Patents

Number of patents held by region (SCREEN Holdings and major subsidiaries)

	2011	2012	2013	2014	2015
Number of patents held (in Japan)	1,717	1,808	1,907	1,991	2,127
Number of patents held (in North America)	572	559	562	545	676
Number of patents held (in Asia)	779	831	873	920	1,115
Number of patents held (in Europe)	218	243	260	253	242
Total	3,286	3,441	3,602	3,709	4,160

Patent allowance rates (SCREEN Holdings and major subsidiaries)

(%)

	2011	2012	2013	2014	2015
Patent allowance rate (Japan)	55%	81%	78%	80%	79%
Patent allowance rate (overseas)	69%	83%	80%	90%	90%
Total	62%	82%	79%	83%	80%

Occupational health and safety

Notes: 1. Incident (labor incident): Event that occurred during the performance of work that leads to injury, illness or death at medical facility.

2. Accident (labor accident): Fire, explosion, gas leak, chemical outflow, collapse, collision, etc. leading to employee death or injury, or leak, chemical outflow, collapse, collision, etc. and the resulting damage to facilities, machinery or equipment. Also, a traffic accident (property damage only).

Number of incidents and accidents (SCREEN Group in Japan)

	2011	2012	2013	2014	2015
Incident involving SCREEN employee(s)*	2	5	3	1	5
Accident involving SCREEN employee(s)*	6	3	6	5	6
Incident involving employee of Group company	8	8	7	8	7
Accident involving employee of Group company	5	0	1	0	1
Incident at partner company	4	4	5	13	5
Accident at partner company	2	2	1	2	8
Incident resulting in four or more days of lost work	3	2	1	1	1

* Refers to those employed by Dainippon Screen before October 1, 2014.

Number of incidents and accidents (overseas Group companies)

	2013	2014	2015
Incident involving employee(s) of Group company	5	11	11
Accident involving employee(s) of Group company	10	13	2
Incident involving SCREEN* employee(s) (person on temporary transfer)	0	0	0
Accident involving SCREEN* employee(s) (person on temporary transfer)	0	0	0
Incident at partner company	0	0	0
Accident at partner company	0	0	0

Note: Data available from 2013.

* Refers to those employed by Dainippon Screen before October 1, 2014.

Occupational health and safety activities: Targets and performance (SCREEN Group)

		Targets	Actual performance
2013	Incidents resulting in four or more days of lost work	No more than one incidents	1
	Incident points*	No more than 300 points	210 points
	Accidents or incidents—at customer facilities	No more than five incidents	9
	Traffic accidents or incidents	No more than five incidents	14
	Periodic health examination	100%	100%
	Health examination of employees posted overseas	100%	91.9%
2014	Incidents resulting in four or more days of lost work	No more than one incidents	1
	Incident points*	No more than 300 points	310 points
	Accidents or incidents—at customer facilities	No more than five incidents	7
	Traffic accidents or incidents	No more than five incidents	14
	Periodic health examination	100%	100%
	Health examination of employees posted overseas	100%	99.0%
2015	Incidents resulting in four or more days of lost work	Zero incidents	1
	Incident points*	No more than 250 points	290 points
	Global number of accidents leading to lost workdays	No more than 10 incidents	9
	Traffic accidents or incidents	No more than five incidents	6
	Periodic health examination	100%	100%
	Health examination of employees posted overseas	100%	100%

* An index used by the SCREEN Group to indicate the gravity of incidents.

Workplace incident frequency rate

	2011	2012	2013	2014	2015
SCREEN employee* incident frequency rate	0.25	0.24	0.00	0.21	0.22
Average incident frequency rate among manufacturers	0.98	1.05	1.00	0.94	1.06
Average incident frequency rate among manufacturers of electrical machinery and equipment	0.49	0.44	0.39	0.41	0.41

Notes: 1. Frequency rate = [(Number of injuries or deaths/hours worked) x 1,000,000] indicates number of injuries or deaths from accidents or incidents per 1 million hours of work.
 2. In the year ended March 31, 2012, the definition of workplace accidents or incidents (resulting in injury or death) was revised from those resulting in four or more days of lost work to those resulting in one or more days of lost work.

* Refers to those employed by Dainippon Screen before October 1, 2014.

Workplace incident severity rate

	2011	2012	2013	2014	2015
SCREEN employee* incident severity rate	0.00	0.00	0.00	0.00	0.01
Average incident severity rate among manufacturers	0.09	0.08	0.10	0.10	0.09
Average incident severity rate among manufacturers of electrical machinery and equipment	0.13	0.02	0.01	0.01	0.01

Notes: 1. Severity rate = [(Days of work lost / total working hours) x 1,000] indicates number of days lost per 1,000 hours of work.
 2. In the year ended March 31, 2012, the definition of workplace accidents or incidents (resulting in injury or death) was revised from those resulting in four or more days of lost work to those resulting in one or more days of lost work.

* Refers to those employed by Dainippon Screen before October 1, 2014.

Number of recipients of occupational health and safety education (SCREEN Group in Japan)

	Education for new employees	Follow-up education for new employees	Management education	Foreman education	Risk assayer education	Education on the prevention of and response to infectious disease in the workplace*
2013	73	50	66	51	167	—
2014	63	51	85	67	92	54*
2015	65	68	33	25	35	167

* Implemented training on responding to an influenza pandemic.

Awards and recognitions (related to CSR)

2015

Recipient	Award giving organization	Content of award or recognition	Result
SCREEN Holdings Co., Ltd.	September 2014 BSI Group Japan K.K.	Business Continuity Management System	Certified
Sites in Tokyo area	December 2014 Kojimachi Police, Metropolitan Police Department	Traffic safety contributor award	Awarded
Yasu Site	October 2014 Shiga Labor Bureau	Shiga Labor Bureau Chief award	Awarded
	February 2015 Shiga Prefecture	Shiga Prefecture Mayor's award for 10 consecutive years of zero traffic accident	Awarded
	March 2015 Konan Fire Department	Letter of thanks to in-house fire fighting team	Received
MT Service Japan East Co., Ltd.	November 2014 Ikebukuro Labor Department, Tokyo Labor Bureau	Ikebukuro Labor Department General Manager commendation (workplace category)	Received

Environmental Report

Notes: 1. All years shown are for the accounting year ended March 31 of the year shown.

2. Major subsidiaries refer to SCREEN Semiconductor Solutions Co., Ltd., SCREEN Graphic and Precision Solutions Co., Ltd., SCREEN Finetech Solutions Co., Ltd., SCREEN Manufacturing Support Solutions Co., Ltd. and SCREEN Business Support Solutions Co., Ltd.

* Blank: N/A

Environmental management

ISO/OHSAS certification status at SCREEN Holdings and major subsidiaries

As of March 31, 2015

		ISO 9001	ISO 14001	OHSAS 18001	ISO 50001	ISO 22301
Holding company	SCREEN Holdings Co., Ltd.		Acquired	Acquired	Acquired	Acquired
Major subsidiaries	SCREEN Semiconductor Solutions Co., Ltd.	Acquired	Acquired	Acquired	Acquired	Acquired
	SCREEN Graphic and Precision Solutions Co., Ltd.	Acquired	Acquired	Acquired	Acquired	Acquired
	SCREEN Finetech Solutions Co., Ltd.	Acquired	Acquired	Acquired	Acquired	Acquired
	SCREEN Manufacturing Support Solutions Co., Ltd.		Acquired	Acquired	Acquired	
	SCREEN Business Support Solutions Co., Ltd.		Acquired	Acquired	Acquired	Acquired

Acquisition of ISO/OHSAS by Group companies (in Japan)

As of March 31, 2015

		ISO 9001	ISO 14001	OHSAS 18001	ISO/IEC 27001
Manufacturing	Tech In Tech Co., Ltd.	Acquired	Acquired	Acquired	
	Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.		Acquired	Acquired	
	Quartz Lead Co., Ltd.	Acquired	Acquired	Acquired	
	FASSE Co., Ltd.	Acquired	Acquired	Acquired	
Services	MT Service Japan East Co., Ltd.	Acquired	Acquired	Acquired	Acquired
	MT Service Japan West Co., Ltd.	Acquired	Acquired	Acquired	Acquired
	SEBACS Co., Ltd.	Acquired	Acquired	Acquired	
	FEBACS Co., Ltd.	Acquired	Acquired	Acquired	
	MEBACS Co., Ltd.	Acquired	Acquired	Acquired	
Others	Media Technology Japan Co., Ltd.		Acquired	Acquired	
	Tec Communications Co., Ltd.	Acquired	Acquired	Acquired	
	TRANSUP Japan Co., Ltd.		Acquired	Acquired	
	INITOUT Japan Co., Ltd.		Acquired	Acquired	Acquired
	S. Ten Nines Kyoto Co., Ltd.		Acquired	Acquired	Acquired
	GERANT Co., Ltd.		Acquired	Acquired	
	DS FINANCE Co., Ltd.				
	Link Ring Japan Co., Ltd.				
	EMD Corporation		Acquired	Acquired	
	SCREEN KUMAMOTO Co., Ltd.				

Acquisition of ISO/OHSAS by Group companies (overseas)

As of March 31, 2015

		ISO 9001	ISO 14001	OHSAS 18001
Manufacturing	Dainippon Screen Mt (Hangzhou) Co., Ltd.	Acquired	Acquired	
	Inca Digital Printers Ltd.	Acquired		
	Silicon Light Machines Corporation			
	Laser Systems & Solutions of Europe SASU			
Others	D.S. North America Holdings, Inc.			
	Dainippon Screen Graphics (USA), LLC			
	DNS Electronics, LLC			
	SOKUDO USA, LLC			
	Dainippon Screen (Deutschland) GmbH			
	Dainippon Screen (Nederland) B.V.			
	Dainippon Screen Singapore Pte. Ltd.			
	Dainippon Screen (China) Ltd.			
	Dainippon Screen Electronics (Shanghai) Co., Ltd.			
	Dainippon Screen Electronics (Taiwan) Co., Ltd.			
	DNS Feats (Taiwan) Co., Ltd.			
	Dainippon Screen (Taiwan) Co., Ltd.			
	Dainippon Screen (Australia) Pty. Ltd.	Acquired		
	Dainippon Screen (Korea) Co., Ltd.	Acquired		

Legal compliance and reported complaints (SCREEN Group in Japan)

2013		
No particular issues arose.		
2014		
Hikone Site	Sewage Act Measurements are done and recorded, but not sufficient to cover all items stipulated by the law	One case
MTJN Hiroshima	Road Traffic Act Parking violation	One case
2015		
MEBACS	Waste Management and Public Cleansing Act	Used a waste-disposal company without concluding a subcontracting agreement
MTJN	Road Traffic Act	Parking violation

EHS education

Basic courses		Courses by job function	Product designer course Purchasing manager course Facility operator course Factory facility manager course Waste management course Chemical substance management course Course for specific persons handling chemical solutions or gases Workplace vehicle operator course Course for obtaining legal qualifications Product EHS training
General employee course (new graduates, mid-career recruits)	General employee course (Business Continuity and EHS management basics)		
Foreman course	Manager course		
Self-care/Line-care	Safety confirmation drill based on BCP and BCM		
EHS management course		Organization-specific courses	Course for obtaining legal qualifications Customer-specific license training course Customer support course Disaster prevention training Emergency response training Simulation training based on BCP Qualifications required for individual sites, lines, groups, etc.
EHS manager/secretariat course	Issue-specific course for section committee members		
Internal EHS auditor course	Environmental assessor course		
Risk assessor course	Product risk assessor course		
BCMS-BIA risk assessor course	BCMS drill trainer course		
Training using revised manuals	Disaster analysis training		

Environmental accounting

(SCREEN Group in Japan)

Environmental protection costs

(Millions of yen)

Category	Protection costs			Amount invested			
	2013	2014	2015	2013	2014	2015	
1. Cost within business area	1. Pollution prevention: Wastewater treatment facilities, air treatment facilities	377	303	261	68	5	59
	2. Environmental preservation: Inverters, facilities for preventing global warming	46	30	34	1,738	179	26
	3. Resource circulation: Appropriate waste disposal	62	104	60	0	0	0
2. Upstream/downstream costs	Recycled product business	594	487	918	0	0	0
3. Administration costs	Analysis and measurement, environmental management education	96	180	306	1,070	1	0
4. R&D costs	Development of environmentally friendly products	1,269	1,227	1,397	0	0	0
5. Social initiative costs	Publishing report, environmental beautification initiatives	12	5	5	0	0	0
6. Costs associated with resolving environmental damages		50	49	34	0	0	0
Total		2,504	2,384	3,015	2,876	185	84

Environmental preservation effects

(Metric tons)

(Millions of yen)

Category	Amount			Cost		
	2013	2014	2015	2013	2014	2015
Effects of reduction efforts on volume of chemical substances used	0.2	0	0	0	0	1
Effects of reduction efforts on amount of energy used	(9,237) t-CO ₂	(6,557) t-CO ₂	1,234 t-CO ₂	13	(43)	33
Effects of reduction efforts on volume of waste emissions	150	(112)	(156)	2	(1)	(2)
Effects of resource conservation: Amount of products reused and paper and cardboard sold	29	36	49	849	703	1,252
Total				864	659	1,285

Greenhouse gases

CO₂ emissions by each business and manufacturing site and Group company

	2011	2012	2013	2014	2015
(t)					
SCREEN Group in Japan					
Business and manufacturing sites					
Hikone	15,791	16,190	21,469	27,215	26,254
Sites in head office area (head office, Nishikyogoku, Kyoto Minami)	496	605	831	928	1,073
Rakusai	3,782	3,444	4,024	4,250	4,281
Taga	2,848	3,307	3,792	4,410	4,590
Yasu	1,661	3,176	4,919	6,464	6,668
Kuze*	778	—	—	—	—
Kumiyama	1,359	1,388	1,970	2,232	2,168
Sites in Tokyo area (Kudan, Monzennaka-cho)	10	59	125	142	332
Total of business and manufacturing sites	26,724	28,170	37,129	45,643	45,365
Group companies in Japan					
Tech In Tech Co., Ltd.	488	453	570	708	563
Quartz Lead Co., Ltd.	1,210	1,109	1,087	1,404	1,576
SEBACS Co., Ltd.	72	74	96	105	99
Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	8	26	73	78	80
FEBACS Co., Ltd.	141	363	245	382	350
FASSE Co., Ltd.	468	431	608	723	699
SOKUDO Co., Ltd.	1,810	1,982	2,712	—	—
Media Technology Japan Co., Ltd.	60	44	44	50	48
MT Service Japan West Co., Ltd.	29	27	38	43	42
MT Service Japan East Co., Ltd.	109	66	79	89	87
S.Ten Nines Kyoto Co., Ltd.	38	67	93	85	72
INITOUT Japan Co., Ltd.	20	21	21	23	22
Tec Communications Co., Ltd.	69	67	96	109	109
TRANSUP Japan Co., Ltd.	24	22	9	11	125
GERANT Co., Ltd.	10	9	10	13	13
MEBACS Co., Ltd.	32	8	14	15	120
Total of Group companies in Japan	4,588	4,768	5,793	3,836	4,005
Total of Group companies in Japan	31,312	32,938	42,922	49,479	48,245
Overseas Group companies					
Dainippon Screen Mt (Hangzhou) Co., Ltd.	272	518	591	560	610
Inca Digital Printers Ltd.	1,302	1,194	1,014	760	903
Dainippon Screen (Nederland) B.V.	133	143	148	96	132
Dainippon Screen Graphics (USA), LLC	288	280	382	392	358
Dainippon Screen (China) Ltd.	66	65	54	59	54
Dainippon Screen (Korea) Co., Ltd.	69	71	165	170	102
Dainippon Screen (Taiwan) Co., Ltd.	21	23	24	24	28
Dainippon Screen (Australia) Pty. Ltd.	50	54	53	49	49
Screen Media Technology Ltd.	30	33	20	27	24
Dainippon Screen (Deutschland) Gmbh	543	504	425	438	437
Dainippon Screen Electronics (Taiwan) Co., Ltd.	301	341	334	320	373
Dainippon Screen Singapore Pte. Ltd.	215	167	219	222	257
DNS Electronics, LLC	345	737	797	792	589
Dainippon Screen Electronics (Shanghai) Co., Ltd.	173	172	78	78	79
DNS Feats (Taiwan) Co., Ltd.	95	90	84	83	79
Silicon Light Machines Corporation	345	319	290	248	284
Laser Systems & Solutions of Europe SASU	—	—	—	—	24
Total of overseas Group companies	4,258	4,920	5,689	4,331	4,381

Notes: 1. Basis for calculation: The SCREEN Group in Japan bases CO₂ conversions on the "Guidelines for Calculating Greenhouse Gas Emission from Businesses," issued by the Ministry of the Environment.

Domestic emissions conversion factors for year ended March 31, 2015: Kansai Electric 0.522 kgCO₂/kWh, Tokyo Electric 0.530 kgCO₂/kWh, Hokuriku Electric 0.63kgCO₂/kWh, Tohoku Electric 0.591 kgCO₂/kWh, Ennet 0.443 kgCO₂/kWh.

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

2. A "—" indicates outside the scope of the environmental management system.

*Closed after 2011.

CO₂ emissions by the Greenhouse Gas Protocol classification (SCREEN Group)

	2011	2012	2013	2014	2015
(t)					
Scope 1 + Scope 2	35,571	37,858	48,600	53,810	52,625
Scope 1	11,124	11,797	13,094	12,309	11,835
Scope 2	24,447	26,061	35,506	41,501	40,790

Notes: 1. The Greenhouse Gas Protocol is a set of internationally recognized standards for the calculation and reporting of GHG emissions.

2. Scope 1 includes greenhouse gas emissions from the direct use of fossil fuels. Scope 2 targets emissions generated through secondary use resulting from electricity purchases.

Reduction measures targeting CO₂ emissions: Major specific initiatives

	Measure	Site	Reduction	
2013	Upgrading air conditioning equipment at CRC wing	Hikone	CO ₂ reduction	10.9 metric tons
			Cost-cutting	¥698,000
	Spacing out fluorescent lighting throughout the office	Yasu	CO ₂ reduction	23.7 metric tons
			Cost-cutting	¥1,518,000
	Introducing air-heat collectors for air conditioning	Tech In Tech Co., Ltd.	CO ₂ reduction	14.5 metric tons
			Cost-cutting	¥928,000
2014	Installation of photovoltaic panels	Head Office	CO ₂ reduction	9 metric tons
			Cost-cutting	¥242,000
	Improving the operation of air compressor, water purifying facility and waste processing facility	Hikone Site	CO ₂ reduction	786 metric tons/year
			Cost-cutting	¥21,546,000/year
2015	Installation of photovoltaic panels (ongoing since 2014)	Hikone Site	CO ₂ reduction	175 metric tons
			Cost-cutting	¥5,145,000

Low-emission vehicles

Number of company vehicles and energy-efficient vehicles (SCREEN Group in Japan)

	2011	2012	2013	2014	2015
Number of energy-efficient vehicles	141	121	119	117	123
Number of other vehicles	7	2	2	2	3
Actual ratio of energy-efficient vehicles (%)	95.3	98.4	98.3	98.3	97.6
Number of low-emission trucks in service	357	831	432	794	772

Energy

Direct/indirect energy consumption (SCREEN Holdings and major subsidiaries)

(Thousands of gigajoules)

	2011	2012	2013	2014	2015
Scope 1: Direct energy (town gas/LPG/kerosene)	198	192	210	217	209
Scope 2: Indirect energy (electricity)	657	600	653	679	657

Note: Uses a conversion factor of 9.97×10^{-3} GJ per kWh of electricity consumption.

Direct/indirect energy consumption (SCREEN Group in Japan)

(Thousands of gigajoules)

	2011	2012	2013	2014	2015
Scope 1: Direct energy (town gas/LPG/kerosene)	202	214	213	221	211
Scope 2: Indirect energy (electricity)	719	705	692	723	703

Note: Uses a conversion factor of 9.97×10^{-3} GJ per kWh of electricity consumption.

Chemical substances

Data on substances subject to the PRTR Act (SCREEN Group in Japan)

(t)

Substance name	Cabinet order number	Usage		
		2013	2014	2015
Xylene	80	0.1	0.3	0.1
Hydrogen fluoride and its salts	374	4.9	5.6	5.9
Hydrazine	333	0.4	0.4	0.4
Formaldehyde	411	0	0	0
2-aminoethanol	20	0	0.1	0
Toluene	300	0.1	0.1	0.1
Ferric chloride	71	47.6	46.0	46.2
N,N-dimethylformamide	232	0.1	0.1	0
1, 3, 5-trimethylbenzene	297	—	0.2	0
Lithium manganese oxide	311	—	—	0.1
Total		53.2	52.5	52.8

Substance name	Amount of movement								
	Emissions to the atmosphere			Emissions to the water system			Amount of movement of wastes		
	2013	2014	2015	2013	2014	2015	2013	2014	2015
Xylene	0.1	0.3	0.1	0	0	0	0	0	0
Hydrogen fluoride and its salts	0	0	0	0	0	0	4.9	5.6	5.9
Hydrazine	0	0	0	0	0	0	0.4	0.4	0.4
Formaldehyde	0	0	0	0	0	0	0	0	0
2-aminoethanol	0	0	0	0	0	0	0	0.1	0
Toluene	0.1	0.1	0.1	0	0	0	0	0	0
Ferric chloride	0	0	0	0	0	0	47.6	46.0	46.2
N,N-dimethylformamide	0	0	0	0	0	0	0.1	0.1	0
1, 3, 5-trimethylbenzene	—	0	0	—	0	0	—	0.2	0
Lithium manganese oxide	—	—	0.1	—	—	0	—	—	0
Total	0.2	0.4	0.3	0	0	0	53	52	52.5

PCB processing (SCREEN Group in Japan)

(Number of units owned)

Type	2011	2012	2013	2014	2015
High-voltage capacitors	43	46	1	0	0
Low-voltage capacitors	197	197	197	0	0
Fluorescent light ballasts	178	178	178	178	179*2
Transformers	1	1	4	4	0
Reactors	5	5	5	5	0
Capacitors*1	—	—	6	6	0

*1 Listed from the fiscal year ended March 31, 2013, due to the inclusion of equipment containing low-concentration PCBs.

*2 Found one additional unit containing PCBs.

Amount of substances used and in circulation

Total amount of substances used (by resource type) (SCREEN Holdings and major subsidiaries)

(t)

	2011	2012	2013	2014	2015
Total amount of substances used	14,054	14,753	11,311	11,637	11,516
Chemical substances	27	53	52	51	51

Total amount of substances used (by resource type) (SCREEN Group in Japan)

(t)

	2011	2012	2013	2014	2015
Total amount of substances used	15,392	16,068	12,072	12,176	12,033
Chemical substances	27	53	53	53	53

Waste/recycling

Breakdown of waste emissions (SCREEN Holdings and major subsidiaries)

	2011	2012	2013	2014	2015
Total volume of waste emissions	1,481	1,420	1,373	1,486	1,661
Volume of recycled waste	1,468	1,394	1,319	1,392	1,628
Recycling rate (%)	99.1%	98.2%	96.1%	93.7%	98.0%
Volume of waste for final disposal	13	26	54	94	33

Breakdown of waste emissions (SCREEN Group in Japan)

	2011	2012	2013	2014	2015
Total volume of waste emissions	1,794	1,806	1,656	1,768	1,924
Volume of recycled waste	1,730	1,708	1,516	1,593	1,854
Recycling rate (%)	96.4%	94.6%	91.6%	90.1%	96.4%
Volume of waste for final disposal	64	98	140	175	70

Total volume of waste emissions by business and manufacturing site and Group company

	2011	2012	2013	2014	2015
SCREEN Group in Japan					
Business and manufacturing sites *1					
Hikone	769	863	899	884	1,030
Sites in head office area (head office, Nishikyogoku, Kyoto Minami)	23	26	23	25	30
Rakusai	37	34	45	24	59
Taga	108	138	74	139	114
Yasu	56	91	100	141	201
Kuze *2	187	22	—	—	—
Kumiyama	299	242	211	250	209
Sites in Tokyo area (Kudan, Monzennaka-cho)	1	3	21	22	18
Total of business and manufacturing sites	1,481	1,419	1,373	1,485	1,661
Group companies in Japan					
Tech In Tech Co., Ltd.	18	23	17	17	26
Quartz Lead Co., Ltd.	89	89	58	70	60
SEBACS Co., Ltd.	4	2	5	3	7
Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	2	2	1	1	1
FEBACS Co., Ltd.	3	7	4	5	5
FASSE Co., Ltd.	124	126	93	98	90
SOKUDO Co., Ltd.	11	29	11	—	—
Media Technology Japan Co., Ltd.	6	12	10	7	6
MT Service Japan West Co., Ltd.	5	4	4	4	3
MT Service Japan East Co., Ltd.	13	8	7	13	12
S. Ten Nines Kyoto Co., Ltd.	0	1	1	1	1
INITOUT Japan Co., Ltd.	1	1	1	1	1
Tec Communications Co., Ltd.	9	11	7	7	6
TRANSUP Japan Co., Ltd.	25	66	63	55	42
GERANT Co., Ltd.	0	0	0	0	1
MEBACS Co., Ltd.	3	6	1	1	2
Total of Group companies in Japan	313	387	283	283	263
Total of SCREEN Group in Japan	1,794	1,806	1,656	1,768	1,924
Overseas Group companies					
Total of overseas Group companies	—	—	88	125	124

*1 Emissions at each site exclude emissions by domestic Group companies located within those sites.

*2 Closed after 2011.

Note: A "—" indicates that the company is or was not within the scope of the environmental management system during that period.

Breakdown of external waste emissions

	2013	2014	2015		2013	2014	2015
Volume of resources of value	589.6	631.4	879.9	Waste oil (special)	17.9	13.2	39.0
Sludge waste	383.5	396.9	376.5	Ceramics, glass	9.8	14.0	17.5
General-purpose paper	19.7	21.2	151.6	Waste alkali (special)	5.2	28.2	19.1
Waste plastic	163.1	182.4	208.6	Electrical wiring, PCBs	0.0	0.0	11.1
Waste acid (special)	84.4	113.3	110.5	Burnable waste	6.8	7.3	58.9
Cardboard	22.5	26.7	176.4	Waste film	18.7	21.4	41.0
Cloth, wood scrap	66.1	84.2	110.6	Batteries	1.0	1.0	4.8
Waste alkali	21.7	16.9	14.8	Waste acid	1.4	1.7	0.7
Scrap metal	107.3	96.5	347.8	Waste fluorescent lighting	2.1	2.3	0.8
Paper	40.6	46.6	177.0	Others	25.6	36.2	33.3
Waste oil	13.1	30.3	20.8				

Breakdown of resources of value indicated above

	2013	2014	2015		2013	2014	2015
Cardboard	164.9	174.9	154.4	Film	0.0	0.2	23.3
Metals	139.1	175.2	302.8	Glass (wafers)	2.0	1.3	1.4
General-purpose paper	197.9	187.7	131.5	Magazines, catalogs	8.3	9.2	124.6
Polyvinyl chloride	13.5	10.8	74.4	Others	63.9	72.1	67.5

Recycling rates by business and manufacturing site and Group company

(%)

	2013	2014	2015		2013	2014	2015
SCREEN Group in Japan				Group companies in Japan			
Business and manufacturing sites				Tech In Tech Co., Ltd.			
Hikone Plant	99.0	97.3	99.0	Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	54.9	70.9	72.1
Sites in head office area (head office, Nishikyogoku, Kyoto Minami)	99.4	99.3	99.7	Quartz Lead Co., Ltd.	99.4	37.3	100.0
Rakusai Site	91.4	80.5	88.2	FASSE Co., Ltd.	54.7	62.8	66.1
Taga Plant	100.0	100.0	100.0	MT Service Japan East Co., Ltd.	100.0	100.0	100.0
Yasu Plant	95.2	57.5	92.0	MT Service Japan West Co., Ltd.	100.0	100.0	100.0
Kumiyama Plant	100.0	98.6	100.0	SEBACS Co., Ltd.	98.4	97.8	99.9
Sites in Tokyo area (Kudan, Monzennaka-cho)	93.0	93.3	100.0	FEBACS Co., Ltd.	100.0	100.0	55.4
				MEBACS Co., Ltd.	96.6	100.0	93.7
				Media Technology Japan Co., Ltd.	100.0	100.0	100.0
				Tec Communications Co., Ltd.	93.8	97.1	96.2
				TRANSUP Japan Co., Ltd.	100.0	100.0	99.6
				INITOUT Japan Co., Ltd.	100.0	100.0	89.8
				S. Ten Nines Kyoto Co., Ltd.	81.9	88.9	93.1
				GERANT Co., Ltd.	100.0	100.0	100.0
Total of SCREEN Group in Japan					96.1	90.1	96.4

Note: Scope of report includes business and manufacturing sites and Group companies in Japan that have certified environmental management systems.

Green purchasing ratio
Green purchasing ratio by business and manufacturing site and Group company

(%)

	2011	2012	2013	2014	2015
SCREEN Group in Japan					
Business and manufacturing sites					
Hikone Plant	99.97	99.90	99.60	99.91	100.00
Sites in head office area (head office, Nishikyogoku, Kyoto Minami)	76.38	88.83	99.40	97.50	91.00
Rakusai Site	100.00	100.00	100.00	100.00	100.00
Taga Plant	100.00	100.00	100.00	100.00	100.00
Yasu Plant	99.68	100.00	100.00	100.00	99.40
Kumiyama Plant	100.00	100.00	100.00	94.49	100.00
Sites in Tokyo area (Kudan, Monzennaka-cho)	100.00	100.00	100.00	100.00	100.00
Group companies in Japan					
Tech In Tech Co., Ltd.	100.00	100.00	100.00	100.00	—
Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	100.00	100.00	100.00	100.00	100.00
Quartz Lead Co., Ltd.	100.00	100.00	100.00	100.00	100.00
FASSE Co., Ltd.	96.13	99.51	85.80	86.24	97.40
MT Service Japan East Co., Ltd.	100.00	100.00	100.00	100.00	100.00
MT Service Japan West Co., Ltd.	100.00	100.00	100.00	100.00	100.00
SEBACS Co., Ltd.	100.00	100.00	100.00	100.00	100.00
FEBACS Co., Ltd.	100.00	100.00	100.00	100.00	100.00
MEBACS Co., Ltd.	100.00	100.00	100.00	100.00	100.00
Media Technology Japan Co., Ltd.	100.00	100.00	100.00	100.00	100.00
Tec Communications Co., Ltd.	99.81	99.70	100.00	100.00	100.00
TRANSUP Japan Co., Ltd.	99.28	100.00	100.00	100.00	96.20
INITOUT Japan Co., Ltd.	98.54	100.00	100.00	100.00	100.00
S. Ten Nines Kyoto Co., Ltd.	100.00	100.00	100.00	97.64	96.50
GERANT Co., Ltd.	89.17	100.00	100.00	100.00	100.00
Total of Group companies in Japan					98.80

Note: A "—" indicates that the company is or was not within the scope of the environmental management system during that period.

Water
Water used (SCREEN Holdings and major subsidiaries)

 (Thousands of m³)

	2011	2012	2013	2014	2015
Service water	247	243	254	194	231
Industrial water	1,803	1,837	1,846	1,787	1,560
Total	2,050	2,080	2,100	1,981	1,790

Water used (SCREEN Group in Japan)

 (Thousands of m³)

	2011	2012	2013	2014	2015
Service water	281	276	286	227	252
Industrial water	1,803	1,837	1,846	1,787	1,560
Total	2,084	2,113	2,132	2,014	1,821

Water used (overseas Group companies)

 (Thousands of m³)

	2013	2014	2015
Service water	19	20	19

Note: Data available from 2013.

Total volume of water emissions (SCREEN Holdings and major subsidiaries)					(Thousands of m ³)
	2011	2012	2013	2014	2015
Public water areas, sewerage	2,050	2,080	2,100	1,981	1,790

Total volume of water emissions (SCREEN Group in Japan)					(Thousands of m ³)
	2011	2012	2013	2014	2015
Public water areas	2,072	2,113	2,132	2,014	1,821

BOD and COD measurements (SCREEN Holdings and major subsidiaries)					(mg/ℓ)
	2011	2012	2013	2014	2015
BOD	1.5	1.9	1.5	0.9	0.8
COD	2.3	1.5	1.6	1.6	1.7

Air quality

SOx and NOx emissions (SCREEN Group in Japan)					(t)
	2011	2012	2013	2014	2015
SOx emissions	0.0	0.0	0.0	0.0	0.0
NOx emissions	8.9	8.5	8.4	8.8	8.6

Transport

CO ₂ emissions from logistics operations by mode of transportation (SCREEN Holdings and major subsidiaries)					(t)
	2011	2012	2013	2014	2015
Vehicles	819	939	539	655	704
Ships	40	35	6	14	2
Railroads	1	1	1	1	1

Reduction in CO ₂ emissions resulting from modal shift in product transportation (SCREEN Holdings and major subsidiaries)						
	Number of shipments			CO ₂ reductions (t)		
	2013	2014	2015	2013	2014	2015
Marine transport	50	113	21	33	73	6
Rail transport	55	21	3	5	2	1

Number of trucks involved in transportation

	2013	2014	2015
Number of trucks involved in product transportation	2,706 (62.6% of the level recorded in the fiscal year ended Mar. 31, 2012)	4,082 (150.8% of the level recorded in the fiscal year ended Mar. 31, 2013)	3,034 (74.3% of the level recorded in the fiscal year ended Mar. 31, 2014)
Number of trucks used for coastal shipping (to Kyushu)	50 (19.0% of the level recorded in the fiscal year ended Mar. 31, 2012)	113 (22.6% of the level recorded in the fiscal year ended Mar. 31, 2013)	21 (8.0% of the level recorded in the fiscal year ended Mar. 31, 2014)

Environmental consideration for the transportation of indirect materials and product containers and packaging

	Initiative	Result
2013	Reuse of cushioning materials at Hikone CRC Parts Center	Reuse of 168 kg of cushioning materials
	Promotion of ESPIE packaging using reinforced cardboard as packaging for the transportation of semiconductor and LCD fabrication equipment	Reduction of 263 tons in wooden materials used The rate of reduction in total use of wooden materials came to 20%*
	Reduction in wooden materials, owing to revision of packaging sizes	Reduction of 8.4 tons in wooden materials used (initiatives from the fiscal year ended March 31, 2013)
2014	Reuse of cushioning materials at Hikone CRC Parts Center	Reuse of 165 kg of cushioning materials
	Promotion of ESPIE packaging using reinforced cardboard as packaging for the transportation of semiconductor and LCD fabrication equipment	Reduction of 311 tons in wooden materials used The rate of reduction in total use of wooden materials came to 12%*
	Reduction in wooden materials, owing to revision of packaging sizes	Reduction of 12 tons in wooden materials used (initiatives from the fiscal year ended March 31, 2013)
2015	Reuse of cushioning materials at Hikone CRC Parts Center	Reuse of 222 kg of cushioning materials
	Promotion of ESPIE packaging using reinforced cardboard as packaging for the transportation of semiconductor and LCD fabrication equipment	Reduction of 186 tons in wooden materials used The rate of reduction in total use of wooden materials came to 12%*
	Reduction in wooden materials, owing to revision of packaging sizes	Reduction of 6 tons in wooden materials used (initiatives from the fiscal year ended March 31, 2013)

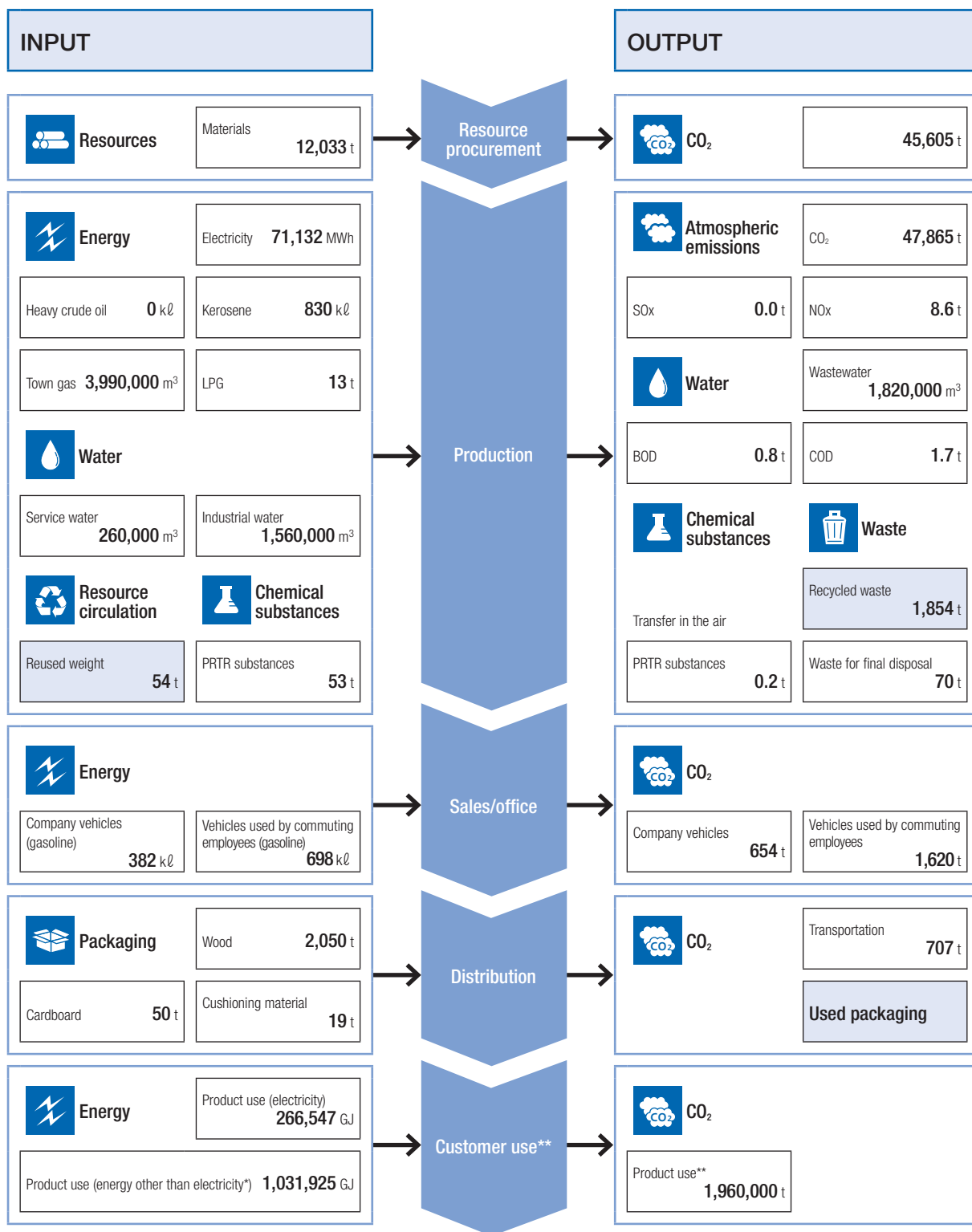
* Percentage decrease = Reduction in use of wooden materials due to use of ESPIE (reinforced cardboard packaging) ÷ Total amount of wooden materials used in packaging for export (SEC and FEC products) x 100

Reducing environmental impacts of products

Percentage of total sales and number of green products (products designated environmentally friendly) (SCREEN Holdings and major subsidiaries)

	2011	2012	2013	2014	2015
Number of green products	76	85	93	104	116
Percentage of total sales (%): Target	50	60	65	70	75
Performance	60	80	83	87	94

Note: 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 standards in the categories of 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>



* Energy for utility (ultra pure water, dry air, nitrogen, exhaust, cooling water) equipment.
 ** Use during a ten-year period by customers of production shipped in the year ended March 31, 2015.