

## Annual Report 2016 Appendix CSR Data Sheets

SCREEN Group  
Fiscal year ended March 31, 2016

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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	
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
<b>2016</b>	<b>2,049</b>	<b>138</b>	<b>2,187</b>	<b>5,182</b>

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

(Person)

	20-29	30-39	40-49	50+	Total
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
<b>As of March 31, 2016</b>	<b>196</b>	<b>405</b>	<b>809</b>	<b>777</b>	<b>2,187</b>

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

(Years)

	2012	2013	2014	2015	2016
Male	43.6	44.2	44.6	45.3	45.6
Female	38.1	39.0	39.6	40.3	40.0
All employees	43.3	43.8	44.3	45.0	45.3

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

(Years)

	2012	2013	2014	2015	2016
Male	19.0	19.4	19.8	4.3	4.7
Female	15.2	16.0	16.5	5.6	6.3
All employees	18.7	19.2	19.6	4.4	4.8

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)

	2012	2013	2014	2015	2016
All employees	9,110,000	8,374,000	7,619,000	8,455,000	8,894,000

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
2016	Male	7	18	0	22	5
	Female	1	4	0	0	0
	Total	8	22	0	22	5

Note: Excludes retirees.

## Diversity

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

(Person)

	2012	2013	2014	2015	2016
On professional career track	59	58	66	69	77
On clerical career track	76	77	78	71	61
Temporary	0	0	0	0	0
<b>Total</b>	<b>135</b>	<b>135</b>	<b>144</b>	<b>140</b>	<b>138</b>

Note: Figures indicate number of direct hires.

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

(Person)

2016		Management post	(Of whom, General Managers or higher)		Directors
			(Of whom, Corporate Officers)		
	<b>Total</b>	<b>794</b>	<b>110</b>	<b>2</b>	<b>6</b>
	<b>Male</b>	<b>786</b>	<b>109</b>	<b>2</b>	<b>6</b>
	<b>Female</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>0</b>
	<b>Ratio of female staff</b>	<b>1.01%</b>	<b>0.91%</b>	<b>0.00%</b>	<b>0.00%</b>

Note: Directors are for SCREEN Holdings only.

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

(Person)

2016		Management post	(Of whom, General Managers or higher)		Directors
			(Of whom, Corporate Officers)		
	<b>Total</b>	<b>794</b>	<b>110</b>	<b>2</b>	<b>6</b>
	<b>Japanese</b>	<b>792</b>	<b>109</b>	<b>2</b>	<b>6</b>
	<b>Non-Japanese</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>
	<b>Ratio of non-Japanese staff</b>	<b>0.25%</b>	<b>0.91%</b>	<b>0.00%</b>	<b>0.00%</b>

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)

	2012	2013	2014	2015	2016
Non-Japanese regular employees	19	19	22	18	22
Ratio of non-Japanese regular employees	0.9%	0.9%	1.0%	0.8%	1.0%

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

(Person)

	2012	2013	2014	2015	2016
Number employed	50	50	53	52	52
Employment ratio	1.91%	1.90%	2.02%	2.02%	2.03%

Note: Numbers shown above are those reported to the Minister of Health, Labor and Welfare each June in SCREEN's report on the employment of persons with disabilities.

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

(Person)

	2012	2013	2014	2015	2016
Number of employees at the company reemploying staff	63	62	52	44	49

## Employment creation

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

(Person)

	2012	2013	2014	2015	2016	
University graduates	Male	22	35	41	45	44
	Female	0	3	8	2	10
	<b>Total</b>	<b>22</b>	<b>38</b>	<b>49</b>	<b>47</b>	<b>54</b>

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

(Person)

	2012	2013	2014	2015	2016	
University graduates	Male	17	12	3	7	3
	Female	0	0	0	1	0
	<b>Total</b>	<b>17</b>	<b>12</b>	<b>3</b>	<b>8</b>	<b>3</b>

### 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
<b>Percentage of people hired in 2012 who were still employed in April 2016</b>	<b>87.8</b>

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)

		2012	2013	2014	2015	2016
Number of employees taking childcare leave (By year leave started)	Male	0	0	0	2	0
	Female	7	9	9	9	9
	Total	7	9	9	11	9
Number of employees using a short working hours system due to childcare	Male	0	1	1	0	0
	Female	47	42	47	50	44
	Total	47	43	48	50	44

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)

(%)

		2012	2013	2014	2015	2016
Ratio of employees taking childcare leave	Male	0	0	0	3.08	0
	Female*	100	100	100	100	100
	Total	9.52	11.11	10.23	14.86	12.33

\* 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)

		2012	2013	2014	2015	2016
		8	8	10	9	7

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)

		2012	2013	2014	2015	2016
Number of employees taking family care leave (long term)	Male	0	0	0	1	0
	Female	0	0	0	0	0
	Total	0	0	0	1	0
Number of employees using a short working hours system due to family care	Male	0	1	0	0	0
	Female	0	0	0	0	0
	Total	0	1	0	0	0
Number of employees taking family care leave (short term)	Male	1	0	1	2	1
	Female	0	0	0	0	0
	Total	1	0	1	2	1

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

(%)

		2012	2013	2014	2015	2016
Percentage of annual paid leave taken		74.7	72.2	70.9	71.5	75.9

## Human resource development

### Career paths

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

### Employee education

Training and self-development support system	Others
New appointee training	Dispatches to domestic and overseas graduate school MBA/MOT programs
Skills and knowledge training	
Engineer training	
Selective training (business leader development course)	
Career development support	
Financial rewards for employees who obtain qualifications	

## 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)

	2012	2013	2014	2015	2016
Incident involving employee(s) of SCREEN Holdings and major subsidiaries	5	3	1	5	4
Accident involving employee(s) of SCREEN Holdings and major subsidiaries	3	6	5	6	3
Incident involving employee(s) of Group company	8	7	8	7	3
Accident involving employee(s) of Group company	0	1	0	1	3
Incident at partner company	4	5	13	5	4
Accident at partner company	2	1	2	8	1
Incident resulting in four or more days of lost work	2	1	1	1	3

### Number of incidents and accidents (overseas Group companies)

	2013	2014	2015	2016
Incident involving employee(s) of Group company	5	11	11	13
Accident involving employee(s) of Group company	10	13	2	7
Incident involving employee(s) of SCREEN Holdings and major subsidiaries (person on temporary transfer)	0	0	0	0
Accident involving employee(s) of SCREEN Holdings and major subsidiaries (person on temporary transfer)	0	0	0	0
Incident at partner company	0	0	0	0
Accident at partner company	0	0	0	0

### 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%
2016	Incidents resulting in four or more days of lost work	Zero incidents	3
	Incident points*	No more than 250 points	290 points
	Global number of accidents leading to lost workdays	No more than 10 incidents	11
	Traffic accidents or incidents	No more than five incidents	5
	Periodic health examination	100%	99.9%
	Health examination of employees posted overseas	100%	82.1%

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

## Workplace incident frequency rate

	2012	2013	2014	2015	2016
Employee(s) of SCREEN Holdings and major subsidiaries incident frequency rate	0.24	0.00	0.21	0.22	<b>0.00</b>
Average incident frequency rate among manufacturers	1.05	1.00	0.94	1.06	<b>1.06</b>
Average incident frequency rate among manufacturers of electrical machinery and equipment	0.44	0.39	0.41	0.41	<b>0.54</b>

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.

## Workplace incident severity rate

	2012	2013	2014	2015	2016
Employee(s) of SCREEN Holdings and major subsidiaries incident severity rate	0.00	0.00	0.00	0.01	<b>0.00</b>
Average incident severity rate among manufacturers	0.08	0.10	0.10	0.09	<b>0.06</b>
Average incident severity rate among manufacturers of electrical machinery and equipment	0.02	0.01	0.01	0.01	<b>0.03</b>

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.

## 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
2013	73	50	66	51	167
2014	63	51	85	67	92
2015	65	68	33	25	35
<b>2016</b>	<b>89</b>	<b>55</b>	<b>42</b>	<b>7</b>	<b>65</b>

## Awards and recognitions (related to CSR)

### 2016

Recipient		Award giving organization	Content of award or recognition	Result
Hikone Site	Jun-15	Shiga Prefecture Safe Driving Managers Association	Award for staying accident- and violation-free for 100 days	Awarded
Hikone Site	Jul-15	Shiga Prefectural Police	Location with Superior Safety Record	Awarded
Hikone Site	Jul-15	Japanese Red Cross Society Shiga Chapter	Fiscal 2015 blood donation honor roll	Awarded
Hikone Site	Feb-16	Governor of Shiga Prefecture	Shiga Prefecture road safety occupational another accident-free movement of the governor awards	Awarded
Hikone Site	Mar-16	Hikone/Inugami Region Safe Driving Managers Association	Fiscal 2015 Site-Specific Movement to Eliminate Traffic Accidents and Violations	Awarded
Yasu Site	May-15	Hikone/Inugami Region Safe Driving Managers Association	Fiscal 2015 accident- and violation-free driving award.	Awarded
Kumiyama Site	Oct-15	Kyoto Liaison Council for Occupational Health and Safety Organizations	Kyoto Zero-Incident Three-Month Campaign	Certified
SCREEN Semiconductor Solutions Co., Ltd.	Mar-16	Intel Corporation	Preferred Quality Supplier (PQS) Award	Received
SCREEN Graphic and Precision Solutions Co., Ltd	Feb-16	Japan Machinery Federation	Japan Machinery Federation Chairman's Award in the 36th Energy-Efficient Machinery Awards	Awarded

# 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, 2016

		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	
	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, 2016

		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	
	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, 2016

		ISO 9001	ISO 14001	OHSAS 18001
Manufacturing	SCREEN GP Hangzhou Co., Ltd.	Acquired	Acquired	
	Inca Digital Printers LTD.	Acquired		
	SILICON LIGHT MACHINES CORPORATION			
	Laser Systems & Solutions of Europe SASU	Acquired		
Others	SCREEN North America Holdings, Inc.			
	SCREEN GP Americas, LLC			
	SCREEN SPE USA, LLC			
	SOKUDO USA, LLC			
	SCREEN SPE Germany GmbH			
	SCREEN GP Europe B.V.			
	SCREEN HD Singapore PTE. Ltd.			
	SCREEN GP China Co., Ltd.			
	SCREEN Electronics Shanghai Co., Ltd.			
	SCREEN SPE Taiwan Co., Ltd.			
	SCREEN FT Taiwan Co., Ltd.			
	SCREEN GP Taiwan Co., Ltd.			
	SCREEN GP Australia PTY., Ltd.	Acquired		
	SCREEN HD 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
2016		
SCREEN Semiconductor Solutions Co., Ltd.	Fluorocarbon Emission Restriction Law	Waste disposal operators were not notified that equipment to be disposed of contained fluorocarbons. As a result, said fluorocarbons were not processed appropriately when equipment was disposed of. One case

## Environmental accounting

### (SCREEN Group in Japan)

#### Environmental protection costs

(Millions of yen)

Category		Protection costs				Amount invested			
		2013	2014	2015	2016	2013	2014	2015	2016
1. Cost within business area	1. Pollution prevention: Wastewater treatment facilities, air treatment facilities	377	303	261	155	68	5	59	22
	2. Environmental preservation: Inverters, facilities for preventing global warming	46	30	34	43	1,738	179	26	179
	3. Resource circulation: Appropriate waste disposal	62	104	60	83	0	0	0	0
2. Upstream/downstream costs	Recycled product business	594	487	918	702	0	0	0	0
3. Administration costs	Analysis and measurement, environmental management education	96	180	306	172	1,070	1	0	53
4. R&D costs	Development of environmentally friendly products	1,269	1,227	1,397	1,517	0	0	0	0
5. Social initiative costs	Publishing report, environmental beautification initiatives	12	5	5	12	0	0	0	5
6. Costs associated with resolving environmental damages		50	49	34	17	0	0	0	0
Total		2,504	2,384	3,015	2,701	2,876	185	84	259

#### Environmental preservation effects

(Metric tons)

(Millions of yen)

Category	Amount				Cost			
	2013	2014	2015	2016	2013	2014	2015	2016
Effects of reduction efforts on volume of chemical substances used	0.2	0	0	5	0	0	1	9
Effects of reduction efforts on amount of energy used	(9,237)t-CO <sub>2</sub>	(6,557)t-CO <sub>2</sub>	1,234t-CO <sub>2</sub>	(847)t-CO <sub>2</sub>	13	(43)	33	210
Effects of reduction efforts on volume of waste emissions	150	(112)	(156)	169	2	(1)	(2)	2
Effects of resource conservation*	29	36	49	25	849	703	1,252	1,098
Total					864	659	1,285	1,319

\*Amount of products reused and income from paper and cardboard sold



## Greenhouse gases

### CO<sub>2</sub> emissions by each business and manufacturing site and Group company

(t)

	2012	2013	2014	2015	2016
<b>SCREEN Group in Japan</b>					
<b>SCREEN Holdings Co., Ltd. and principal subsidiaries</b>					
<b>Business and manufacturing sites</b>					
Hikone	16,190	21,469	27,215	26,254	<b>26,328</b>
Sites in head office area (head office, Nishikyogoku, Kyoto Minami)	605	831	928	1,073	<b>795</b>
Rakusai	3,444	4,024	4,250	4,281	<b>4,181</b>
Taga	3,307	3,792	4,410	4,590	<b>4,695</b>
Yasu	3,176	4,919	6,464	6,668	<b>6,302</b>
Kumiyama	1,388	1,970	2,232	2,168	<b>2,164</b>
Sites in Tokyo area (Kudan, Monzennaka-cho)	59	125	142	332	<b>156</b>
<b>Total of business and manufacturing sites</b>	<b>28,170</b>	<b>37,129</b>	<b>45,643</b>	<b>45,365</b>	<b>44,621</b>
<b>Group companies in Japan</b>					
Tech In Tech Co., Ltd.	453	570	708	563	<b>1,011</b>
Quartz Lead Co., Ltd.	1,109	1,087	1,404	1,576	<b>1,724</b>
SEBACS Co., Ltd.	74	96	105	99	<b>86</b>
Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	26	73	78	80	<b>83</b>
FEBACS Co., Ltd.	363	245	382	350	<b>240</b>
FASSE Co., Ltd.	431	608	723	699	<b>651</b>
SOKUDO Co., Ltd.	1,982	2,712	—	—	<b>—</b>
Media Technology Japan Co., Ltd.	44	44	50	48	<b>45</b>
MT Service Japan West Co., Ltd.	27	38	43	42	<b>37</b>
MT Service Japan East Co., Ltd.	66	79	89	87	<b>87</b>
S.Ten Nines Kyoto Co., Ltd.	67	93	85	72	<b>56</b>
INITOUT Japan Co., Ltd.	21	21	23	22	<b>61</b>
Tec Communications Co., Ltd.	67	96	109	109	<b>120</b>
TRANSUP Japan Co., Ltd.	22	9	11	125	<b>117</b>
GERANT Co., Ltd.	9	10	13	13	<b>46</b>
MEBACS Co., Ltd.	8	14	15	120	<b>108</b>
<b>Total of Group companies in Japan</b>	<b>4,768</b>	<b>5,793</b>	<b>3,836</b>	<b>4,005</b>	<b>4,471</b>
<b>Total of Group companies in Japan</b>	<b>32,938</b>	<b>42,922</b>	<b>49,479</b>	<b>48,245</b>	<b>49,092</b>
<b>Overseas Group companies</b>					
SCREEN GP Hangzhou Co., Ltd.	518	591	560	610	<b>505</b>
Inca Digital Printers LTD.	1,194	1,014	760	903	<b>545</b>
SCREEN GP Europe B.V.	143	148	96	132	<b>131</b>
SCREEN GP Americas, LLC	280	382	392	358	<b>376</b>
SCREEN GP China Co., Ltd.	65	54	59	54	<b>43</b>
SCREEN HD Korea Co., Ltd.	71	165	170	102	<b>51</b>
SCREEN GP Taiwan Co., Ltd.	23	24	24	28	<b>16</b>
SCREEN GP Australia PTY., Ltd.	54	53	49	49	<b>59</b>
SCREEN GP Shanghai Co., Ltd.	33	20	27	24	<b>25</b>
SCREEN SPE Germany GmbH	504	425	438	437	<b>505</b>
SCREEN SPE Taiwan Co., Ltd.	341	334	320	373	<b>343</b>
SCREEN HD Singapore PTE. Ltd.	167	219	222	257	<b>183</b>
SCREEN SPE USA, LLC	737	797	792	589	<b>277</b>
SCREEN Electronics Shanghai Co., Ltd.	172	78	78	79	<b>100</b>
SCREEN FT Taiwan Co., Ltd.	90	84	83	79	<b>51</b>
SILICON LIGHT MACHINES CORPORATION	319	290	248	284	<b>164</b>
Laser Systems & Solutions of Europe SASU	—	—	—	24	<b>57</b>
<b>Total of overseas Group companies</b>	<b>4,920</b>	<b>5,689</b>	<b>4,331</b>	<b>4,381</b>	<b>3,431</b>

Notes: 1. Basis for calculation: The SCREEN Group in Japan bases CO<sub>2</sub> 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, 2016: Kansai Electric 0.522 kgCO<sub>2</sub>/kWh, Tokyo Electric 0.530 kgCO<sub>2</sub>/kWh, Hokuriku Electric 0.63kgCO<sub>2</sub>/kWh, Tohoku Electric 0.591 kgCO<sub>2</sub>/kWh, Ennet 0.443 kgCO<sub>2</sub>/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.

### CO<sub>2</sub> emissions by the Greenhouse Gas Protocol classification (SCREEN Group)

(t)

	2012	2013	2014	2015	2016
Scope 1 + Scope 2	37,858	48,600	53,810	52,625	<b>52,523</b>
Scope 1	11,797	13,094	12,309	11,835	<b>11,436</b>
Scope 2	26,061	35,506	41,501	40,790	<b>41,087</b>

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 CO<sub>2</sub> emissions: Major specific initiatives

	Measure	Site	Reduction	
2013	Upgrading air conditioning equipment at CRC wing	Hikone	CO <sub>2</sub> reduction	10.9 metric tons
			Cost-cutting	¥698,000
	Spacing out fluorescent lighting throughout the office	Yasu	CO <sub>2</sub> reduction	23.7 metric tons
2014	Introducing air-heat collectors for air conditioning	Tech In Tech Co., Ltd.	CO <sub>2</sub> reduction	14.5 metric tons
			Cost-cutting	¥928,000
	Installation of photovoltaic panels	Head Office	CO <sub>2</sub> reduction	9 metric tons
2015	Improving the operation of air compressor, water purifying facility and waste processing facility	Hikone Site	CO <sub>2</sub> reduction	786 metric tons/year
			Cost-cutting	¥21,546,000/year
	Installation of photovoltaic panels	Hikone Site	CO <sub>2</sub> reduction	175 metric tons
2016	Steam boiler renewal	Rakusai	CO <sub>2</sub> reduction	3.8 metric tons/year
			Cost-cutting	¥139,000
	Production cooling water flow control	Rakusai	CO <sub>2</sub> reduction	4.4 metric tons/year
			Cost-cutting	¥126,000
	Communications equipment office: Replacement of air conditioners	Head Office	CO <sub>2</sub> reduction	1.3 metric tons/year
			Cost-cutting	¥41,000
	Server system transformer integration	Head Office	CO <sub>2</sub> reduction	3.0 metric tons/year
			Cost-cutting	¥99,000
	Replacement of halogen lamps with LEDs	Head Office	CO <sub>2</sub> reduction	0.2 metric tons/year
			Cost-cutting	¥8,000
	Changes to clean room climate control settings, shutting off boilers at night in winter	Yasu	CO <sub>2</sub> reduction	465.4 metric tons/year
			Cost-cutting	¥8,677,000
	Site relocation (1157.81m <sup>2</sup> → 976.25m <sup>2</sup> ), effect for August–March	MT Service Japan West Co., Ltd.	CO <sub>2</sub> reduction	5.2 metric tons/year
			Cost-cutting	¥168,000
	Visualization of electricity usage (adoption of demand monitoring systems)	FASSE Co., Ltd.	CO <sub>2</sub> reduction	69.5 metric tons/year
Cost-cutting			¥1,158,000	

## Transportation and logistics

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

	2012	2013	2014	2015	2016
Number of energy-efficient vehicles	121	119	117	123	132
Number of other vehicles	2	2	2	3	3
Actual ratio of energy-efficient vehicles (%)	98.4	98.3	98.3	97.6	97.8
Number of low-emission trucks in service	831	432	794	772	1,368

### CO<sub>2</sub> emissions from logistics operations by mode of transportation (SCREEN Holdings and major subsidiaries) (t)

	2012	2013	2014	2015	2016
Vehicles	939	539	655	704	770
Ships	35	6	14	2	0.3
Railroads	1	1	1	1	0

### Reduction in CO<sub>2</sub> emissions resulting from modal shift in product transportation (SCREEN Holdings and major subsidiaries)

	Number of shipments				CO <sub>2</sub> reductions (t)			
	2013	2014	2015	2016	2013	2014	2015	2016
Marine transport	50	113	21	13	33	73	6	5
Rail transport	55	21	3	0	5	2	1	0

### Number of trucks involved in transportation

	2013	2014	2015	2016
Number of trucks involved in product transportation	2,706	4,082	3,034	3,896
Number of trucks used for coastal shipping (to Kyushu)	50	113	21	13

## 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
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
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
2016	Reuse of cushioning materials at Hikone CRC Parts Center	Reuse of 208 kg of cushioning materials
	Promotion of ESPIE packaging using reinforced cardboard as packaging for the transportation of semiconductor and LCD fabrication equipment	Reduction of 221 tons in wooden materials used The rate of reduction in total use of wooden materials came to 9.8%*
	Reduction in wooden materials, owing to revision of packaging sizes	Reduction of 19.5 tons in wooden materials used

\* 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 x 100

## Energy

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

(Thousands of gigajoules)

	2012	2013	2014	2015	2016
Scope 1: Direct energy (town gas/LPG/kerosene)	192	210	217	209	200
Scope 2: Indirect energy (electricity)	600	653	679	657	641

Note: Uses a conversion factor of  $9.97 \times 10^{-3}$  GJ per 1kWh of electricity consumption.

### Direct/indirect energy consumption (SCREEN Group in Japan)

(Thousands of gigajoules)

	2012	2013	2014	2015	2016
Scope 1: Direct energy (town gas/LPG/kerosene)	214	213	221	211	207
Scope 2: Indirect energy (electricity)	705	692	723	703	714

Note: Uses a conversion factor of  $9.97 \times 10^{-3}$  GJ per 1kWh of electricity consumption.

## Chemical substances

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

(t)

Substance name	Cabinet order number	Usage				
		2012	2013	2014	2015	2016
2-aminoethanol	20	0	0	0.1	0	0.04
Ethylbenzene	53	0	0	0	0	0.06
Ferric chloride	71	47.3	47.6	46.0	46.2	40.80
Xylene	80	0.2	0.1	0.3	0.1	0.06
Silver and its water-soluble compounds	82	0	0	0	0	0.03
N, N- dimethylacetamide	213	0	0	0	0	0.02
N,N-dimethylformamide	232	0	0.1	0.1	0	0
1, 3, 5-trimethylbenzene	297	0	0	0.2	0	0
Toluene	300	0	0.1	0.1	0.1	0.03
Nickel compound	309	0	0	0	0	0.01
Lithium manganese oxide	311	0	0	0	0.1	0
Hydrazine	333	0.4	0.4	0.4	0.4	0.39
Hydrogen fluoride and its salts	374	5.5	4.9	5.6	5.9	6.53
Formaldehyde	411	0	0	0	0	0.03
Manganese and its compounds	412	0	0	0	0	0.06
Total		53.4	53.2	52.8	52.8	48.1

Substance name	Amount of movement								
	Emissions to the atmosphere			Emissions to the water system			Amount of movement of wastes		
	2014	2015	2016	2014	2015	2016	2014	2015	2016
2-aminoethanol	0	0	0	0	0	0	0.1	0	0.04
Ethylbenzene	0	0	0.06	0	0	0	0	0	0
Ferric chloride	0	0	0	0	0	0	46.0	46.2	40.8
Xylene	0.3	0.1	0.06	0	0	0	0	0	0
Silver and its water-soluble compounds	0	0	0	0	0	0	0	0	0.03
N, N- dimethylacetamide	0	0	0	0	0	0	0	0	0.02
N,N-dimethylformamide	0	0	0	0	0	0	0.1	0	0
1, 3, 5-trimethylbenzene	0	0	0	0	0	0	0.2	0	0
Toluene	0.1	0.1	0.03	0	0	0	0	0	0
Nickel compound	0	0	0	0	0	0	0	0	0.01
Lithium manganese oxide	0	0.1	0	0	0	0	0	0	0
Hydrazine	0	0	0	0	0	0	0.4	0.4	0.39
Hydrogen fluoride and its salts	0	0	0	0	0	0	5.6	5.9	6.53
Formaldehyde	0	0	0.00	0	0	0	0	0	0.03
Manganese and its compounds	0	0	0	0	0	0	0	0	0.06
Total	0.4	0.3	0.15	0	0	0	52.4	52.5	47.9

### PCB processing (SCREEN Group in Japan)

(Number of units owned)

Type	2012	2013	2014	2015	2016
High-voltage capacitors	46	1	0	0	0
Low-voltage capacitors	197	197	0	0	0
Fluorescent light ballasts	178	178	178	179 <sup>2</sup>	179
Transformers	1	4	4	0	0
Reactors	5	5	5	0	0
Capacitors*1	—	6	6	0	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)

	2012	2013	2014	2015	2016
Total amount of substances used	14,753	11,311	11,637	11,516	11,839
Chemical substances	53	52	51	51	46

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

(t)

	2012	2013	2014	2015	2016
Total amount of substances used	16,068	12,072	12,176	12,033	13,544
Chemical substances	53	53	53	53	48

## Waste/recycling

### Breakdown of waste emissions (SCREEN Holdings and major subsidiaries)

	2012	2013	2014	2015	2016
Total volume of waste emissions	1,420	1,373	1,486	1,661	1,529
Volume of recycled waste	1,394	1,319	1,392	1,628	1,467
Recycling rate (%)	98.2%	96.1%	93.7%	98.0%	96.0%
Volume of waste for final disposal	26	54	94	33	62

### Breakdown of waste emissions (SCREEN Group in Japan)

	2012	2013	2014	2015	2016
Total volume of waste emissions	1,806	1,656	1,768	1,924	1,755
Volume of recycled waste	1,708	1,516	1,593	1,854	1,670
Recycling rate (%)	94.6%	91.6%	90.1%	96.4%	95.2%
Volume of waste for final disposal	98	140	175	70	85

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

	2012	2013	2014	2015	2016
<b>SCREEN Group in Japan</b>					
<b>Business and manufacturing sites *</b>					
Hikone	863	899	884	1,030	910
Sites in head office area (head office, Nishikyogoku, Kyoto Minami)	26	23	25	30	21
Rakusai	34	45	24	59	69
Taga	138	74	139	114	118
Yasu	91	100	141	201	221
Kuze *2	24	—	—	—	—
Kumiyama	242	211	250	209	155
Sites in Tokyo area (Kudan, Monzennaka-cho)	3	21	22	18	36
<b>Total of business and manufacturing sites</b>	<b>1,419</b>	<b>1,373</b>	<b>1,485</b>	<b>1,661</b>	<b>1,529</b>
<b>Group companies in Japan</b>					
Tech In Tech Co., Ltd.	23	17	17	26	15
Quartz Lead Co., Ltd.	89	58	70	60	45
SEBACS Co., Ltd.	2	5	3	7	7
Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	2	1	1	1	2
FEBACS Co., Ltd.	7	4	5	5	1
FASSE Co., Ltd.	126	93	98	90	80
SOKUDO Co., Ltd.	29	11	—	—	—
Media Technology Japan Co., Ltd.	12	10	7	6	5
MT Service Japan West Co., Ltd.	4	4	4	3	3
MT Service Japan East Co., Ltd.	8	7	13	12	11
S. Ten Nines Kyoto Co., Ltd.	1	1	1	1	1
INITOUT Japan Co., Ltd.	1	1	1	1	1
Tec Communications Co., Ltd.	11	7	7	6	7
TRANSUP Japan Co., Ltd.	66	63	55	42	43
GERANT Co., Ltd.	0	0	0	1	1
MEBACS Co., Ltd.	6	1	1	2	5
<b>Total of Group companies in Japan</b>	<b>387</b>	<b>283</b>	<b>283</b>	<b>263</b>	<b>226</b>
<b>Total of SCREEN Group in Japan</b>	<b>1,806</b>	<b>1,656</b>	<b>1,768</b>	<b>1,924</b>	<b>1,755</b>
<b>Overseas Group companies</b>					
<b>Total of overseas Group companies</b>	<b>—</b>	<b>88</b>	<b>125</b>	<b>124</b>	<b>93</b>

\*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

	2014	2015	2016		2014	2015	2016
Volume of resources of value	631.4	879.9	732.6	Waste oil (special)	13.2	39.0	37.0
Sludge waste	396.9	376.5	371.4	Ceramics, glass	14.0	17.5	10.8
General-purpose paper	21.2	151.6	24.8	Waste alkali (special)	28.2	19.1	20.0
Waste plastic	182.4	208.6	131.9	Electrical wiring, PCBs	0.0	11.1	0.7
Waste acid (special)	113.3	110.5	100.5	Burnable waste	7.3	58.9	7.0
Cardboard	26.7	176.4	26.9	Waste film	21.4	41.0	19.1
Cloth, wood scrap	84.2	110.6	107.3	Batteries	1.0	4.8	0.8
Waste alkali	16.9	14.8	13.5	Waste acid	1.7	0.7	1.7
Scrap metal	96.5	347.8	19.8	Waste fluorescent lighting	2.3	0.8	3.6
Paper	46.6	177.0	43.8	Others	36.2	33.3	10.6
Waste oil	30.3	20.8	21.4				

### Breakdown of resources of value indicated above

	2014	2015	2016		2014	2015	2016
Cardboard	174.9	154.4	152.7	Film	0.2	23.3	0.0
Metals	175.2	302.8	246.5	Glass (wafers)	1.3	1.4	0.8
General-purpose paper	187.7	131.5	123.0	Magazines, catalogs	9.2	124.6	130.3
Polyvinyl chloride	10.8	74.4	69.2	Others	72.1	67.5	10.1

**Recycling rates by business and manufacturing site and Group company**

(%)

	2013	2014	2015	2016
<b>SCREEN Group in Japan</b>				
<b>Business and manufacturing sites</b>				
Hikone Plant	99.0	97.3	99.0	<b>96.0</b>
Sites in head office area (head office, Nishikyogoku, Kyoto Minami)	99.4	99.3	99.7	<b>89.6</b>
Rakusai Site	91.4	80.5	88.2	<b>81.6</b>
Taga Plant	100.0	100.0	100.0	<b>100.0</b>
Yasu Plant	95.2	57.5	92.0	<b>95.2</b>
Kumiyama Plant	100.0	98.6	100.0	<b>100.0</b>
Sites in Tokyo area (Kudan, Monzennaka-cho)	93.0	93.3	100.0	<b>99.6</b>
<b>Group companies in Japan</b>				
Tech In Tech Co., Ltd.	95.8	99.1	99.1	<b>98.5</b>
Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	54.9	70.9	72.1	<b>69.8</b>
Quartz Lead Co., Ltd.	99.4	37.3	100.0	<b>100.0</b>
FASSE Co., Ltd.	54.7	62.8	66.1	<b>72.6</b>
MT Service Japan East Co., Ltd.	100.0	100.0	100.0	<b>100.0</b>
MT Service Japan West Co., Ltd.	100.0	100.0	100.0	<b>100.0</b>
SEBACS Co., Ltd.	98.4	97.8	99.9	<b>98.2</b>
FEBACS Co., Ltd.	100.0	100.0	55.4	<b>100.0</b>
MEBACS Co., Ltd.	96.6	100.0	93.7	<b>97.2</b>
Media Technology Japan Co., Ltd.	100.0	100.0	100.0	<b>100.0</b>
Tec Communications Co., Ltd.	93.8	97.1	96.2	<b>97.0</b>
TRANSUP Japan Co., Ltd.	100.0	100.0	99.6	<b>99.7</b>
INITOUT Japan Co., Ltd.	100.0	100.0	89.8	<b>98.8</b>
S. Ten Nines Kyoto Co., Ltd.	81.9	88.9	93.1	<b>92.0</b>
GERANT Co., Ltd.	100.0	100.0	100.0	<b>100.0</b>
<b>Total of SCREEN Group in Japan</b>	<b>96.1</b>	<b>90.1</b>	<b>96.4</b>	<b>95.2</b>

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

**CSR procurement**
**Green purchasing ratio by business and manufacturing site and Group company**

(%)

	2012	2013	2014	2015	2016
<b>Total of Group companies in Japan</b>	<b>98.8%</b>	<b>99.7%</b>	<b>93.6%</b>	<b>98.8%</b>	<b>98.3%</b>

**Water**
**Water used (SCREEN Holdings and major subsidiaries)**

 (Thousands of m<sup>3</sup>)

	2012	2013	2014	2015	2016
Service water	243	254	194	231	<b>253</b>
Industrial water	1,837	1,846	1,787	1,560	<b>1,704</b>
<b>Total</b>	<b>2,080</b>	<b>2,100</b>	<b>1,981</b>	<b>1,790</b>	<b>1,958</b>

**Water used (SCREEN Group in Japan)**

 (Thousands of m<sup>3</sup>)

	2012	2013	2014	2015	2016
Service water	276	286	227	252	<b>281</b>
Industrial water	1,837	1,846	1,787	1,560	<b>1,704</b>
<b>Total</b>	<b>2,113</b>	<b>2,132</b>	<b>2,014</b>	<b>1,821</b>	<b>1,985</b>

**Water used (overseas Group companies)**

 (Thousands of m<sup>3</sup>)

	2013	2014	2015	2016
Service water	19	20	19	<b>36</b>

Note: Data available from 2013.

**Total volume of water emissions (SCREEN Holdings and major subsidiaries)** (Thousands of m<sup>3</sup>)

	2012	2013	2014	2015	2016
Public water areas, sewerage	2,080	2,100	1,981	1,790	<b>1,931</b>

**Total volume of water emissions (SCREEN Group in Japan)** (Thousands of m<sup>3</sup>)

	2012	2013	2014	2015	2016
Public water areas	2,113	2,132	2,014	1,821	<b>1,959</b>

**BOD and COD measurements (SCREEN Holdings and major subsidiaries)** (mg/l) (t)

	2012	2013	2014	2015	2016
BOD	1.9	1.5	0.9	0.8	<b>4.9</b>
COD	1.5	1.6	1.6	1.7	<b>1.9</b>

\*Figures used for BOD and COD reporting have been changed from measured amount per liter (mg/l) to total emissions (tons) as of fiscal 2016. Figures for fiscal 2015 and earlier are expressed using the previous method, as mg/l.

**Air quality****SOx and NOx emissions (SCREEN Group in Japan)** (t)

	2012	2013	2014	2015	2016
SOx emissions	0.0	0.0	0.0	0.0	<b>0.0</b>
NOx emissions	8.5	8.4	8.8	8.6	<b>2.3</b>

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

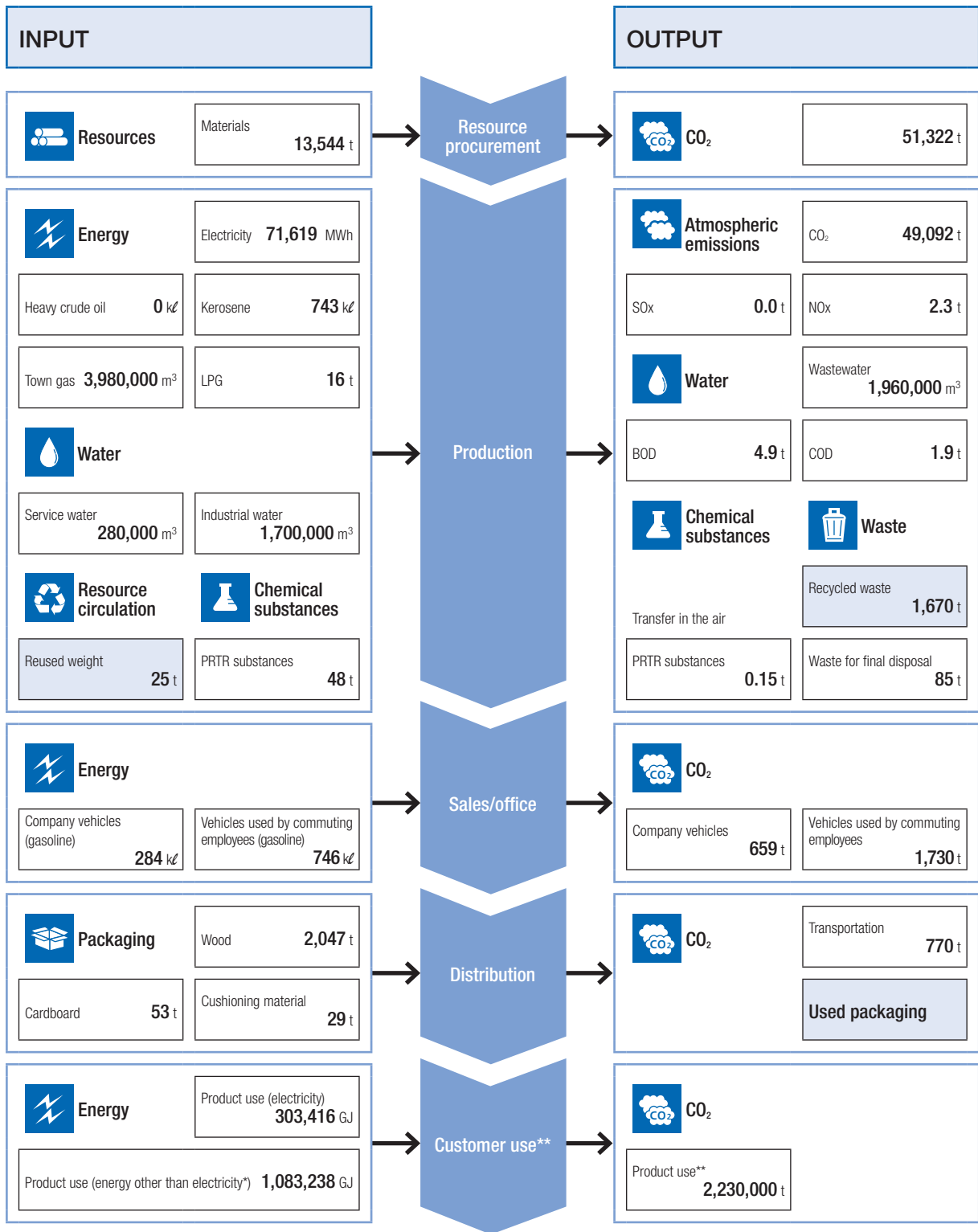
	2012	2013	2014	2015	2016
Number of green products	85	93	104	116	<b>119</b>
Percentage of total sales (%): Target	60	65	70	75	<b>80</b>
Performance	80	83	87	92	<b>92</b>

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>

\*The fiscal 2015 figure has been revised from 94 to 92

Material Balance (SCREEN Group in Japan)



\* 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, 2016.



## Patents

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

	2012	2013	2014	2015	2016
Number of patents held (in Japan)	1,808	1,907	1,991	2,127	2,098
Number of patents held (in North America)	559	562	545	676	716
Number of patents held (in Asia)	831	873	920	1,115	*1,184
Number of patents held (in Europe)	243	260	253	242	224
<b>Total</b>	<b>3,441</b>	<b>3,602</b>	<b>3,709</b>	<b>4,160</b>	<b>*4,222</b>

\*This figure is less than the sum of the figures for HD and SE because of a company jointly funded by HD and SE in Taiwan.

### Patent allowance rates (SCREEN Holdings and major subsidiaries)

(%)

	2012	2013	2014	2015	2016
Patent allowance rate (Japan)	81%	78%	80%	79%	79%
Patent allowance rate (overseas)	83%	80%	90%	90%	85%
<b>Total</b>	<b>82%</b>	<b>79%</b>	<b>83%</b>	<b>80%</b>	<b>82%</b>

## Risk management

### CSR Charter Education

(%)

	SCREEN Group in Japan	SCREEN Group overseas (Excludes China)	SCREEN Group overseas (China)	Total
Ratio of passing a final charter comprehension test	99.50%	91%	86%	95%

### EHS education

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