

Social Report

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- Green purchasing ratio

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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., SCREEN Business Support Solutions Co., Ltd., SCREEN Advanced System Solutions Co., Ltd., and SCREEN IP Solutions Co., Ltd.

Employees

Number of employees

(Person)

	SCREEN Holdings and major subsidiaries			SCREEN Group
	Male	Female	Total	
2013	1,995	135	2,130	4,954
2014	2,084	144	2,228	4,968
2015	2,072	140	2,212	5,082
2016	2,049	138	2,187	5,182
2017	2,031	134	2,165	5,422

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

(Years)

	2013	2014	2015	2016	2017
Male	44.2	44.6	45.3	45.6	45.6
Female	39.0	39.6	40.3	40.0	39.8
All employees	43.8	44.3	45.0	45.3	45.3

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

(Years)

	2013	2014	2015	2016	2017
Male	19.4	19.8	20.4	20.7	20.6
Female	16.0	16.5	17.7	17.2	16.6
All employees	19.2	19.6	20.3	20.4	20.3

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

(Yen)

	2013	2014	2015	2016	2017
All employees	8,374,000	7,619,000	8,455,000	8,894,000	9,188,000

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
	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
2017	Male	4	10	0	11	3
	Female	0	1	0	0	0
	Total	4	11	0	11	3

Note: Excludes retirees.

Diversity

Number of female employees (SCREEN Holdings and major subsidiaries)

(Person)

	2013	2014	2015	2016	2017
On professional career track	58	66	69	77	84
On clerical career track	77	78	71	61	50
Temporary	0	0	0	0	0
Total	135	144	140	138	134

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
2017	Total	775	122	14	6
	Male	767	121	14	6
	Female	8	1	0	0
	Ratio of female staff	1.03%	0.82%	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
2017	Total	775	122	14	6
	Japanese	770	120	14	6
	Non-Japanese	5	2	0	0
	Ratio of non-Japanese staff	0.65%	1.64%	0.00%	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)

		2013	2014	2015	2016	2017
Non-Japanese regular employees	Male	18	19	14	14	17
	Female	1	3	4	8	9
	Total	19	22	18	22	26
Ratio of non-Japanese regular employees		0.9%	1.0%	0.8%	1.0%	1.2%

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

(Person)

		2013	2014	2015	2016	2017
Number employed	Male	43	46	46	45	44
	Female	7	7	6	7	9
	Total	50	53	52	52	53
Employment ratio		1.90%	2.02%	2.02%	2.03%	2.05%

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)

		2013	2014	2015	2016	2017
Number of employees at the company reemploying staff	Male	57	48	38	45	67
	Female	5	4	6	4	4
	Total	62	52	44	49	71

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

(Person)

		2013	2014	2015	2016	2017
University graduates	Male	35	41	45	44	44
	Female	3	8	2	10	8
	Total	38	49	47	54	52

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

(Person)

		2013	2014	2015	2016	2017
University graduates	Male	12	3	7	3	27
	Female	0	0	1	0	0
	Total	12	3	8	3	27

Hiring of new graduates (SCREEN Holdings and major subsidiaries)

(%)

	Male	Female	Total
Percentage of people hired in 2011 who were still employed in April 2014	100	–	100
Percentage of people hired in 2012 who were still employed in April 2015	88.6	100	89.5
Percentage of people hired in 2013 who were still employed in April 2016	90.2	75	87.8
Percentage of people hired in 2014 who were still employed in April 2017	97.7	100	97.8

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)

		2013	2014	2015	2016	2017
Number of employees taking childcare leave (By year leave started)	Male	0	0	2	0	0
	Female	9	9	9	9	6
	Total	9	9	11	9	6
Number of employees using a short working hours system due to childcare	Male	1	1	0	0	3
	Female	42	47	50	44	48
	Total	43	48	50	44	51

Notes: 1. So far, nine male employees have taken childcare leave and seven 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) (%)

		2013	2014	2015	2016	2017
Ratio of employees taking childcare leave	Male	0	0	3	0	0
	Female*	100	100	100	100	100
	Total	11.11	10.23	14.86	12.33	8.82

* 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)

		2013	2014	2015	2016	2017
		8	10	9	7	8

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)

		2013	2014	2015	2016	2017
Number of employees taking family care leave (long term)	Male	0	0	1	0	1
	Female	0	0	0	0	0
	Total	0	0	1	0	1
Number of employees using a short working hours system due to family care	Male	1	0	0	0	0
	Female	0	0	0	0	0
	Total	1	0	0	0	0
Number of employees taking family care leave (short term)	Male	0	1	2	1	2
	Female	0	0	0	0	0
	Total	0	1	2	1	2

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

		2013	2014	2015	2016	2017
Percentage of annual paid leave taken		72.2	70.9	71.5	75.9	75.0

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	Partial telecommuting
In-house inter-departmental transfer	Spouse accompaniment leave system
Internal recruiting	
In-house internship	

Employee education

Training and self-development support system	Others
Education/training by position	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)

	2013	2014	2015	2016	2017
Incident involving employee(s) of SCREEN Holdings and major subsidiaries	3	1	5	4	5
Accident involving employee(s) of SCREEN Holdings and major subsidiaries	6	5	6	3	4
Incident involving employee(s) of Group company	7	8	7	3	5
Accident involving employee(s) of Group company	1	0	1	3	5
Incident at partner company	5	13	5	4	6
Accident at partner company	1	2	8	1	2
Incident resulting in four or more days of lost work	1	1	1	3	3

Number of incidents and accidents (overseas Group companies)

	2013	2014	2015	2016	2017
Incident involving employee(s) of Group company	5	11	11	13	13
Accident involving employee(s) of Group company	10	13	2	7	2
Incident involving employee(s) of SCREEN Holdings and major subsidiaries (person on temporary transfer)	0	0	0	0	0
Accident involving employee(s) of SCREEN Holdings and major subsidiaries (person on temporary transfer)	0	0	0	0	0
Incident at partner company	0	0	0	0	0
Accident at partner company	0	0	0	0	0

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

		Targets	Actual performance
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
	Global number of accidents leading to lost workdays	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%
2017	Incidents resulting in four or more days of lost work	Zero incidents	3
	Incident points*	No more than 250 points	350 points
	Global number of accidents leading to lost workdays	No more than 10 incidents	13
	Traffic accidents or incidents	No more than five incidents	2
	Periodic health examination	100%	100%
	Health examination of employees posted overseas	100%	90.7%

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

Workplace incident frequency rate

	2013	2014	2015	2016	2017
Employee(s) of SCREEN Holdings and major subsidiaries incident frequency rate	0.00	0.21	0.22	0.00	0.19
Average incident frequency rate among manufacturers	1.00	0.94	1.06	1.06	1.15
Average incident frequency rate among manufacturers of electrical machinery and equipment	0.39	0.41	0.41	0.54	0.51

Notes: 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.

Workplace incident severity rate

	2013	2014	2015	2016	2017
Employee(s) of SCREEN Holdings and major subsidiaries incident severity rate	0.00	0.00	0.01	0.00	0.01
Average incident severity rate among manufacturers	0.10	0.10	0.09	0.06	0.07
Average incident severity rate among manufacturers of electrical machinery and equipment	0.01	0.01	0.01	0.03	0.05

Notes: Severity rate = [(Days of work lost / total working hours) x 1,000] indicates number of days lost per 1,000 hours of work.

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

(Person)

	Education for new employees	Follow-up education for new employees	Management education	Foreman education	Risk assayer education
2014	63	51	85	67	92
2015	65	68	33	25	35
2016	89	55	42	7	65
2017	76	73	37	31	61

Awards and recognitions (related to CSR)

2017

Recipient	Award giving organization	Content of award or recognition	Result
Yasu Site	May-16 Moriyama Yasu Safe Driving Managers Association Moriyama Police	No-accident, no-traffic violation campaign	Awarded
Yasu Site	May-16 Moriyama Yasu Safe Driving Managers Association Moriyama Police	Achievement of zero drink driving during a specific period	Awarded
Yasu Site	May-16 Shiga Labour Standards Association	Accident-free Record Certification, Class 2	Certified
Yasu Site	Jun-16 Chief of Moriyama Police Director of Japan Safe Driving Center Shiga Prefectural Office	Bronze Award for Excellent Safe Driving Office	Awarded
Sites in head office area	Jun-16 TABLE FOR TWO International (NPO)	Silver Supporter certification	Certified
Hikone Site	Jun-16 TABLE FOR TWO International (NPO)	Silver Supporter certification	Certified
Hikone Site	Nov-16 Shiga Prefecture Traffic Safety 'Zero' Accident Campaign Executive Committee	Fiscal 2016 Shiga Prefecture road safety 'zero' accident campaign by job type	Awarded
Sites in head office area	Jan-17 Kyoto Labour Bureau	Certification of a company with an excellent safety/health record	Certified
Hikone Site	Mar-17 Hikone/Inugami Region Safe Driving Managers Association	Fiscal 2016 Site-specific Movement to Eliminate Traffic Accidents and Violations	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., SCREEN Business Support Solutions Co., Ltd., SCREEN Advanced System Solutions Co., Ltd., and SCREEN IP Solutions Co., Ltd.

* Blank: N/A

Environmental management

ISO/OHSAS certification status at SCREEN Holdings and major subsidiaries (SCREEN Group companies in Japan)

As of March 31, 2017

		ISO9001	ISO14001	OHSAS18001	ISO50001	ISO22301
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
	SCREEN Advanced System Solutions Co., Ltd.	Activities have been conducted within the range certified by SCREEN Holdings Co., Ltd.				
	SCREEN IP Solutions Co., Ltd.	(until July 2017)				

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

As of March 31, 2017

		ISO9001	ISO14001	OHSAS18001	ISO/IEC27001
Manufacturing	Tech In Tech Co., Ltd.	Acquired	Acquired	Acquired	
	FASSE Co., Ltd.	Acquired	Acquired	Acquired	
	Quartz Lead Co., Ltd.	Acquired	Acquired	Acquired	
	SCREEN KUMAMOTO Co., Ltd.				
Services	SEBACS Co., Ltd.	Acquired	Acquired	Acquired	
	MT Service Japan East Co., Ltd.	Acquired	Acquired	Acquired	Acquired
	MT Service Japan West Co., Ltd.	Acquired	Acquired	Acquired	Acquired
	FEBACS Co., Ltd.	Acquired	Acquired	Acquired	
	MEBACS Co., Ltd.	Acquired	Acquired	Acquired	
Others	Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.		Acquired	Acquired	
	Media Technology Japan Co., Ltd.		Acquired	Acquired	
	S. Ten Nines Kyoto Co., Ltd.		Acquired	Acquired	Acquired
	TRANSUP Japan Co., Ltd.		Acquired	Acquired	
	INITOUT Japan Co., Ltd.		Acquired	Acquired	Acquired
	Tec Communications Co., Ltd.	Acquired	Acquired	Acquired	
	Link Ring Japan Co., Ltd.				
	GERANT Co., Ltd.		Acquired	Acquired	
	EMD Corporation		Acquired	Acquired	
	Alpha MED Scientific Inc.				

Acquisition of ISO/OHSAS by Group companies (overseas)

As of March 31, 2017

		ISO9001	ISO14001
Manufacturing	SCREEN GP Hangzhou Co., Ltd.	Acquired	Acquired
	Inca Digital Printers LTD.	Acquired	
	Laser Systems & Solutions of Europe SASU	Acquired	
Others	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
2017			
No particular issues arose.			

Environmental accounting

(SCREEN Group in Japan)

Environmental protection costs

(Millions of yen)

Category	Protection costs				Amount invested			
	2014	2015	2016	2017	2014	2015	2016	2017
1. Cost within business area								
1. Pollution prevention: Wastewater treatment facilities, air treatment facilities	303	261	155	196	5	59	22	24
2. Environmental preservation: Inverters, facilities for preventing global warming	30	34	43	60	179	26	179	59
3. Resource circulation: Appropriate waste disposal	104	60	83	66	0	0	0	0
2. Upstream/downstream costs								
Recycled product business	487	918	702	444	0	0	0	0
3. Administration costs								
Analysis and measurement, environmental management education	180	306	172	147	1	0	53	32
4. R&D costs								
Development of environmentally friendly products	1,227	1,397	1,517	1,779	0	0	0	0
5. Social initiative costs								
Publishing report, environmental beautification initiatives	5	5	12	19	0	0	5	19
6. Costs associated with resolving environmental damages								
	49	34	17	0	0	0	0	0
Total	2,384	3,015	2,701	2,739	185	84	259	134

Environmental preservation effects

(Metric tons)

(Millions of yen)

Category	Amount				Cost			
	2014	2015	2016	2017	2014	2015	2016	2017
Effects of reduction efforts on volume of chemical substances used	0	0	5	▲ 4	0	1	9	▲ 7
Effects of reduction efforts on amount of energy used	▲ 6,557CO₂	1,234CO ₂	▲ 847CO₂	▲ 2,647CO₂	▲ 43	33	210	▲ 54
Effects of reduction efforts on volume of waste emissions	▲ 112	▲ 156	169	▲ 203	▲ 1	▲ 2	2	▲ 2
Effects of resource conservation*	36	49	25	18	703	1,252	1,098	636
Total					659	1,285	1,319	572

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

Greenhouse gases

CO₂ emissions by each business and manufacturing site and Group company

(t)

	2013	2014	2015	2016	2017
SCREEN Group in Japan					
SCREEN Holdings Co., Ltd. and principal subsidiaries					
Business and manufacturing sites					
Hikone	21,469	27,215	26,254	26,328	26,268
Sites in head office area (head office, Nishikyogoku, Kyoto Minami)	831	928	1,073	795	736
Rakusai	4,024	4,250	4,281	4,181	3,849
Taga	3,792	4,410	4,590	4,695	4,902
Yasu	4,919	6,464	6,668	6,302	6,458
Kumiyama	1,970	2,232	2,168	2,164	2,318
Sites in Tokyo area (Kudan, Monzennaka-cho, Shinagawa)	125	142	332	156	160
Total of business and manufacturing sites	37,129	45,643	45,365	44,621	44,690
Group companies in Japan					
Tech In Tech Co., Ltd.	570	708	563	1,011	1,768
FASSE Co., Ltd.	608	723	699	651	760
Quartz Lead Co., Ltd.	1,087	1,404	1,576	1,724	1,863
SCREEN Kumamoto Co., Ltd.	-	-	-	-	40
SOKUDO Co., Ltd.	2,712	-	-	-	-
SEBACS Co., Ltd.	96	105	99	86	87
MT Service Japan East Co., Ltd.	79	89	87	87	77
MT Service Japan West Co., Ltd.	38	43	42	37	31
FEBACS Co., Ltd.	245	382	350	240	260
MEBACS Co., Ltd.	14	15	120	108	112
Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	73	78	80	83	253
Media Technology Japan Co., Ltd.	44	50	48	45	46
S.Ten Nines Kyoto Co., Ltd.	93	85	72	56	82
TRANSUP Japan Co., Ltd.	9	11	125	117	128
INITOUT Japan Co., Ltd.	21	23	22	61	62
Tec Communications Co., Ltd.	96	109	109	120	114
GERANT Co., Ltd.	10	13	13	46	79
Total of Group companies in Japan	5,793	3,836	4,005	4,471	5,760
Total of Group companies in Japan	42,922	49,479	48,245	49,092	50,451
Overseas Group companies					
Laser Systems & Solutions of Europe SASU	-	-	24	57	63
Inca Digital Printers LTD.	1,014	760	903	545	681
SCREEN GP Hangzhou Co., Ltd.	591	560	610	505	472
SILICON LIGHT MACHINES CORPORATION	290	248	284	164	155
SCREEN SPE USA, LLC	797	792	589	277	173
SCREEN SPE Germany GmbH	425	438	437	505	149
SCREEN SPE Taiwan Co., Ltd.	334	320	373	343	228
SCREEN HD Singapore PTE. Ltd.	219	222	257	183	166
SCREEN Electronics Shanghai Co., Ltd.	78	78	79	100	100
SCREEN GP Americas, LLC	382	392	358	376	376
SCREEN GP Europe B.V.	148	96	132	131	94
DAINIPPON SCREEN (U.K.) LTD.	1,011	15	-	-	-
SCREEN HD Korea Co., Ltd.	165	170	102	51	51
SCREEN GP China Co., Ltd.	54	59	54	43	42
SCREEN GP Shanghai Co., Ltd.	20	27	24	25	24
SCREEN GP Taiwan Co., Ltd.	24	24	28	16	17
SCREEN GP Australia PTY., Ltd.	53	49	49	59	60
SCREEN FT Taiwan Co., Ltd.	84	83	79	51	54
Total of overseas Group companies	5,689	4,331	4,381	3,431	2,906

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, 2017: Kansai Electric 0.509 kg CO₂/kWh, Tokyo Electric 0.500 kg CO₂/kWh, Hokuriku Electric 0.627 kg CO₂/kWh, Tohoku Electric 0.558 kg CO₂/kWh, Kyushu Electric 0.509 kg CO₂/kWh, Ennet 0.418 kg CO₂/kWh
For the overseas Group companies, calculations are based on the CO₂ conversion factors provided by their electric power suppliers.
2. A "-" indicates outside the scope of the environmental management system.

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

(t)

	2013	2014	2015	2016	2017
Scope 1 + Scope 2	48,600	53,810	52,625	52,523	53,357
Scope 1	13,094	12,309	11,835	11,436	12,263
Scope 2	35,506	41,501	40,790	41,087	41,093

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	
			CO ₂ reduction	Cost-cutting
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	Hikone Site	CO ₂ reduction	175 metric tons
			Cost-cutting	¥5,145,000
2016	Steam boiler renewal	Rakusai	CO ₂ reduction	3.8metric tons/year
			Cost-cutting	¥139,000
	Production cooling water flow control	Rakusai	CO ₂ reduction	4.4metric tons/year
			Cost-cutting	¥126,000
	Communications equipment office: Replacement of air conditioners	Head Office	CO ₂ reduction	1.3metric tons/year
			Cost-cutting	¥41,000
	Server system transformer integration	Head Office	CO ₂ reduction	3.0metric tons/year
			Cost-cutting	¥99,000
	Replacement of halogen lamps with LEDs	Head Office	CO ₂ reduction	0.2metric tons/year
			Cost-cutting	¥8,000
	Changes to clean room climate control settings, shutting off boilers at night in winter	Yasu	CO ₂ reduction	465.4metric tons/year
			Cost-cutting	¥8,677,000
	Site relocation (1157.81m ² → 976.25m ²), effect for August–March	MT Service Japan West Co., Ltd.	CO ₂ reduction	5.2metric tons/year
			Cost-cutting	¥168,000
	Visualization of electricity usage (adoption of demand monitoring systems)	FASSE Co., Ltd.	CO ₂ reduction	69.5metric tons/year
			Cost-cutting	¥1,158,000
2017	Replacement of air conditioners	Kumiyama	CO₂ reduction	69.4 metric tons/year
			Cost-cutting	¥2,942,000
	Replacement of water demineralizer pumps	Taga	CO₂ reduction	1.8 metric tons/year
			Cost-cutting	¥44,000
	Suspension of utility facility operation for operational improvement(Water purifying facility and air pressure facility)	Hikone	CO₂ reduction	48.9 metric tons/year
			Cost-cutting	¥1,218,000
	Replacement of office air conditioners	Yasu	CO₂ reduction	6.9 metric tons/year
			Cost-cutting	¥171,000
	Replacement of office light bulbs with LEDs	MT Service Japan West Co., Ltd.	CO₂ reduction	9.4 metric tons/year
			Cost-cutting	¥518,000

Transportation and logistics

CO₂ emissions from logistics operations by mode of transportation (SCREEN Holdings and major subsidiaries)

	2013	2014	2015	2016	2017
Vehicles	539	655	704	770	816
Ships	6	14	2	0.3	11.8
Railroads	1	1	1	0	0

Reduction in CO₂ emissions resulting from modal shift in product transportation (SCREEN Holdings and major subsidiaries)

	Number of shipments					CO ₂ reductions (t)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Marine transport	50	113	21	13	85	33	73	6	5	78.4
Rail transport	55	21	3	0	0	5	2	1	0	0

Number of trucks involved in transportation

	2014	2015	2016	2017
Number of trucks involved in product transportation	4,082	3,034	3,896	3,896
Number of trucks used for coastal shipping (to Kyushu)	113	21	13	86

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

	Initiative	Result
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
2017	Reuse of cushioning materials at parts centers	Reuse of 927 kg of cushioning materials
	Promotion of ESPIE packaging using reinforced cardboard as packaging for the transportation of semiconductor and LCD fabrication equipment	Reduction of 356 tons in wooden materials used The rate of reduction in total use of wooden materials came to 1.1%*
	Reduction in wooden materials, owing to revision of packaging sizes	Reduction of 25.75 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)

	2013	2014	2015	2016	2017
Scope 1: Direct energy (town gas/LPG/kerosene)	210	217	209	200	206
Scope 2: Indirect energy (electricity)	653	679	657	641	695

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)

	2013	2014	2015	2016	2017
Scope 1: Direct energy (town gas/LPG/kerosene)	213	221	211	207	207
Scope 2: Indirect energy (electricity)	692	723	703	714	752

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	2016	2017
2-aminoethanol	20	0	0.1	0	0.04	0.08
Ethylbenzene	53	0	0	0	0.06	0.04
Ferric chloride	71	47.6	46.0	46.2	40.80	44.20
Xylene	80	0.1	0.3	0.1	0.06	0.04
Silver and its water-soluble compounds	82	0	0	0	0.03	0.09
N, N- dimethylacetamide	213	0	0	0	0.02	0.08
N,N-dimethylformamide	232	0.1	0.1	0	0	0
1, 3, 5-trimethylbenzene	297	0	0.2	0	0	0
Toluene	300	0.1	0.1	0.1	0.03	0.01
Nickel compound	309	0	0	0	0.01	0.01
Lithium manganese oxide	311	0	0	0.1	0	0
Hydrazine	333	0.4	0.4	0.4	0.39	0.40
Hydrogen fluoride and its salts	374	4.9	5.6	5.9	6.53	7.30
Formaldehyde	411	0	0	0	0.03	0.03
Manganese and its compounds	412	0	0	0	0.06	0
Total		53.2	52.8	52.8	48.1	52.3

Substance name	Amount of movement								
	Emissions to the atmosphere			Emissions to the water system			Amount of movement of wastes		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
2-aminoethanol	0	0	0	0	0	0	0	0.04	0.08
Ethylbenzene	0	0.06	0.04	0	0	0	0	0	0
Ferric chloride	0	0	0	0	0	0	46.2	40.8	44.2
Xylene	0.1	0.06	0.04	0	0	0	0	0	0
Silver and its water-soluble compounds	0	0	0	0	0	0	0	0.03	0.09
N, N- dimethylacetamide	0	0	0	0	0	0	0	0.02	0.08
N,N-dimethylformamide	0	0	0	0	0	0	0	0	0
1, 3, 5-trimethylbenzene	0	0	0	0	0	0	0	0	0
Toluene	0.1	0.03	0.01	0	0	0	0	0	0
Nickel compound	0	0	0	0	0	0	0	0.01	0.01
Lithium manganese oxide	0.1	0	0	0	0	0	0	0	0
Hydrazine	0	0	0	0	0	0	0.4	0.39	0.40
Hydrogen fluoride and its salts	0	0	0	0	0	0	5.9	6.53	7.30
Formaldehyde	0	0.00	0	0	0	0	0	0.03	0.03
Manganese and its compounds	0	0	0	0	0	0	0	0.06	0
Total	0.3	0.15	0.09	0	0	0	52.5	47.9	52.2

PCB processing (SCREEN Group in Japan)

(Number of units owned)

Type	2013	2014	2015	2016	2017
High-voltage capacitors	1	0	0	0	0
Low-voltage capacitors	197	0	0	0	0
Fluorescent light ballasts	178	178	179 ^{*2}	179	179
Transformers	4	4	0	0	0
Reactors	5	5	0	0	0
Capacitors ^{*1}	6	6	0	0	0

*1 Devices containing low-concentrated PCB.

*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)

	2013	2014	2015	2016	2017
Total amount of substances used	11,311	11,637	11,516	11,839	13,602
Chemical substances	52	51	51	46	50

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

(t)

	2013	2014	2015	2016	2017
Total amount of substances used	12,072	12,176	12,033	13,544	14,250
Chemical substances	53	53	53	48	52

Waste/recycling

Breakdown of waste emissions (SCREEN Holdings and major subsidiaries)

(t)

	2013	2014	2015	2016	2017
Total volume of waste emissions	1,373	1,486	1,661	1,529	1,368
Volume of recycled waste	1,319	1,392	1,628	1,467	1,345
Recycling rate (%)	96.1%	93.7%	98.0%	96.0%	98.3%
Volume of waste for final disposal	54	94	33	62	24

Breakdown of waste emissions (SCREEN Group in Japan)

(t)

	2013	2014	2015	2016	2017
Total volume of waste emissions	1,656	1,768	1,924	1,755	1,961
Volume of recycled waste	1,516	1,593	1,854	1,670	1,891
Recycling rate (%)	91.6%	90.1%	96.4%	95.2%	96.4%
Volume of waste for final disposal	140	175	70	85	71

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

(t)

	2013	2014	2015	2016	2017
SCREEN Group in Japan					
Business and manufacturing sites *					
Hikone	899	884	1,030	910	824
Sites in head office area (head office, Nishikyogoku, Kyoto Minami)	23	25	30	21	25
Rakusai	45	24	59	69	53
Taga	74	139	114	118	112
Yasu	100	141	201	221	148
Kumiyama	211	250	209	155	190
Sites in Tokyo area (Kudan, Monzennaka-cho)	21	22	18	36	16
Total of business and manufacturing sites	1,373	1,485	1,661	1,529	1,368
Group companies in Japan					
Tech In Tech Co., Ltd.	17	17	26	15	14
FASSE Co., Ltd.	93	98	90	80	117
Quartz Lead Co., Ltd.	58	70	60	45	99
SCREEN Kumamoto Co., Ltd.	-	-	-	-	3
SEBACS Co., Ltd.	5	3	7	7	4
MT Service Japan East Co., Ltd.	7	13	12	11	12
MT Service Japan West Co., Ltd.	4	4	3	3	3
FEBACS Co., Ltd.	4	5	5	1	1
MEBACS Co., Ltd.	1	1	2	5	4
Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	1	1	1	2	2
Media Technology Japan Co., Ltd.	10	7	6	5	5
S. Ten Nines Kyoto Co., Ltd.	1	1	1	1	1
TRANSUP Japan Co., Ltd.	63	55	42	43	3
INITOUT Japan Co., Ltd.	1	1	1	1	1
Tec Communications Co., Ltd.	7	7	6	7	7
GERANT Co., Ltd.	0	0	1	1	323
Total of Group companies in Japan	283	283	263	226	596
Total of SCREEN Group in Japan	1,656	1,768	1,924	1,755	1,964
Overseas Group companies					
Total of overseas Group companies	88	125	124	93	100

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

Breakdown of external waste emissions

(t)

	2015	2016	2017	2015	2016	2017	
Resources of value	879.9	732.6	817.6	Waste oil (special)	39.0	37.0	46.2
Sludge waste	376.5	371.4	394.2	Ceramics, glass	17.5	10.8	28.9
General-purpose paper	151.6	24.8	39.7	Waste alkali (special)	19.1	20.0	27.4
Waste plastic	208.6	131.9	144.5	Electrical wiring, PCBs	11.1	0.7	9.6
Waste acid (special)	110.5	100.5	112.4	Burnable waste	58.9	7.0	8.6
Cardboard	176.4	26.9	40.2	Waste film	41.0	19.1	23.6
Cloth, wood scrap	110.6	107.3	134.5	Batteries	4.8	0.8	0.9
Waste alkali	14.8	13.5	14.0	Waste acid	0.7	1.7	12.3
Scrap metal	347.8	19.8	29.7	Waste fluorescent lighting	0.8	3.6	2.2
Paper	177.0	43.8	44.1	Others	33.3	10.6	6.2
Waste oil	20.8	21.4	24.6				

Breakdown of resources of value indicated above

(t)

	2015	2016	2017	2015	2016	2017	
Cardboard	154.4	152.7	190.4	Film	23.3	0.0	0.0
Metals	302.8	246.5	262.8	Glass (wafers)	1.4	0.8	2.1
General-purpose paper	131.5	123.0	167.1	Magazines, catalogs	124.6	130.3	117.3
Polyvinyl chloride	74.4	69.2	72.5	Others	67.5	10.1	5.5

Recycling rates by business and manufacturing site and Group company

(%)

	2013	2014	2015	2016	2017
SCREEN Group in Japan					
Business and manufacturing sites					
Hikone Plant	99.0	97.3	99.0	96.0	99.0
Sites in head office area (head office, Nishikyogoku, Kyoto Minami)	99.4	99.3	99.7	89.6	97.7
Rakusai Site	91.4	80.5	88.2	81.6	91.0
Taga Plant	100.0	100.0	100.0	100.0	100.0
Yasu Plant	95.2	57.5	92.0	95.2	95.2
Kumiyama Plant	100.0	98.6	100.0	100.0	100.0
Sites in Tokyo area (Kudan, Monzennaka-cho, Shinagawa)	93.0	93.3	100.0	99.6	99.7
Group companies in Japan					
Tech In Tech Co., Ltd.	95.8	99.1	99.1	98.5	99.8
FASSE Co., Ltd.	54.7	62.8	66.1	72.6	79.1
Quartz Lead Co., Ltd.	99.4	37.3	100.0	100.0	88.3
SCREEN Kumamoto Co., Ltd.	-	-	-	-	76.1
SEBACS Co., Ltd.	98.4	97.8	99.9	98.2	98.1
MT Service Japan East Co., Ltd.	100.0	100.0	100.0	100.0	100.0
MT Service Japan West Co., Ltd.	100.0	100.0	100.0	100.0	100.0
FEBACS Co., Ltd.	100.0	100.0	55.4	100.0	100.0
MEBACS Co., Ltd.	96.6	100.0	93.7	97.2	95.5
Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd.	54.9	70.9	72.1	69.8	75.4
Media Technology Japan Co., Ltd.	100.0	100.0	100.0	100.0	100.0
S. Ten Nines Kyoto Co., Ltd.	81.9	88.9	93.1	92.0	84.0
TRANSUP Japan Co., Ltd.	100.0	100.0	99.6	99.7	96.4
INITOUT Japan Co., Ltd.	100.0	100.0	89.8	98.8	97.5
Tec Communications Co., Ltd.	93.8	97.1	96.2	97.0	88.1
GERANT Co., Ltd.	100.0	100.0	100.0	100.0	99.5
Total of SCREEN Group in Japan	96.1	90.1	96.4	95.2	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 (SCREEN Group companies in Japan)

(%)

	2013	2014	2015	2016	2017
Green purchasing ratio	99.7	93.6	98.8	98.3	99.1

Water
Water used (SCREEN Holdings and major subsidiaries)

 (Thousands of m³)

	2013	2014	2015	2016	2017
Service water	254	194	231	253	286
Industrial water	1,846	1,787	1,560	1,704	1,696
Total	2,100	1,981	1,790	1,958	1,982

Water used (SCREEN Group in Japan)

 (Thousands of m³)

	2013	2014	2015	2016	2017
Service water	286	227	262	281	308
Industrial water	1,846	1,787	1,560	1,704	1,696
Total	2,132	2,014	1,821	1,985	2,005

Water used (overseas Group companies)

 (Thousands of m³)

	2013	2014	2015	2016	2017
Service water	19	20	19	36	29

Total volume of water emissions (SCREEN Holdings and major subsidiaries)(Thousands of m³)

	2013	2014	2015	2016	2017
Public water areas, sewerage	2,100	1,981	1,790	1,931	1,955

Total volume of water emissions (SCREEN Group in Japan)(Thousands of m³)

	2013	2014	2015	2016	2017
Public water areas, sewerage	2,132	2,014	1,821	1,959	1,978

BOD and COD emissions (SCREEN Holdings and major subsidiaries)

(t)

	2013	2014	2015	2016	2017
BOD	1.5	0.9	0.8	4.9	3.8
COD	1.6	1.6	1.7	1.9	1.9

*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)

	2013	2014	2015	2016	2017
SOx emissions	0.0	0.0	0.0	0.0	0.0
NOx emissions	8.4	8.8	8.6	2.3	2.6

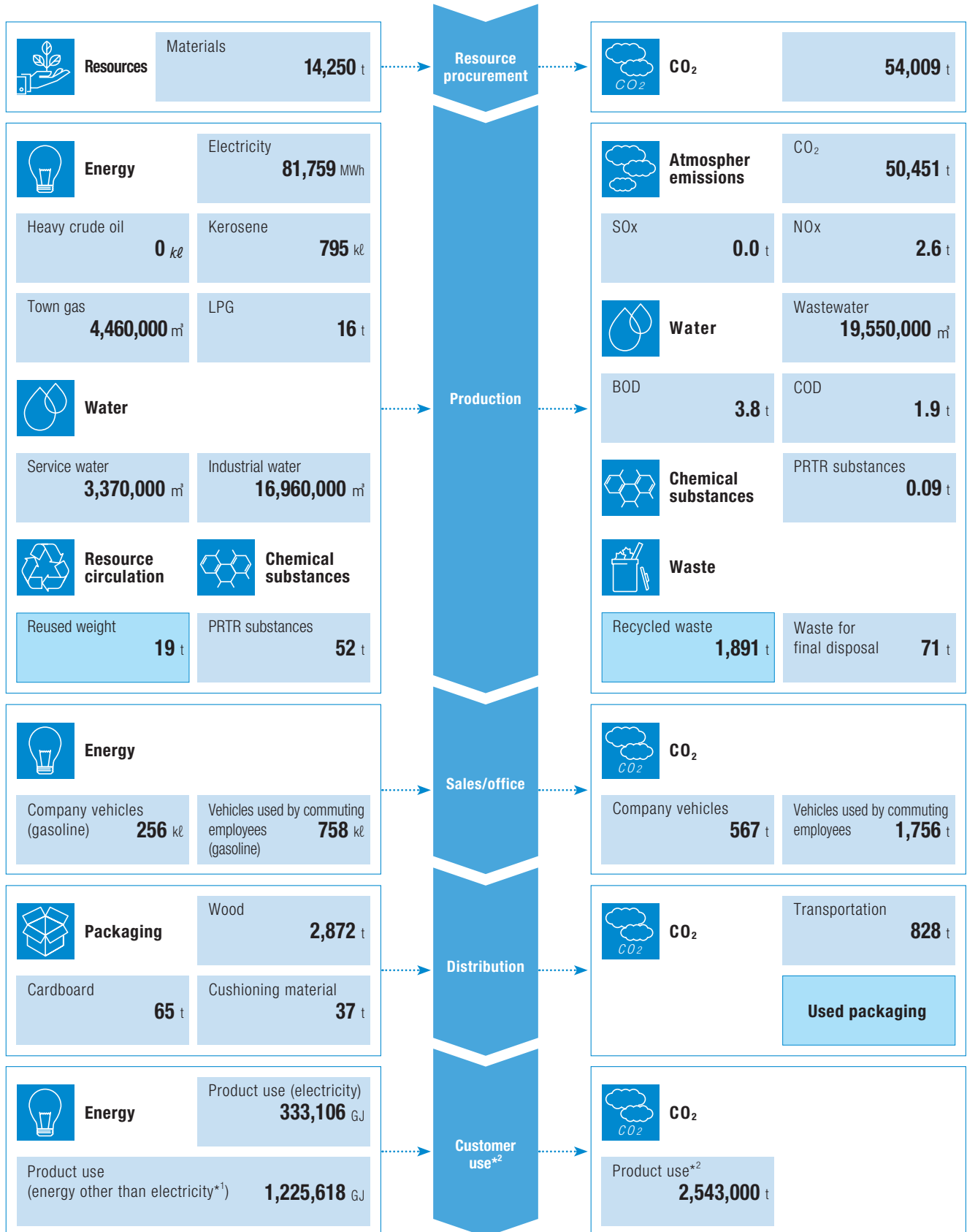
Reducing environmental impacts of products**Percentage of total sales and number of green products (products designated environmentally friendly) (SCREEN Holdings and major subsidiaries)**

	2013	2014	2015	2016	2017
Number of green products	93	104	116	119	133
Percentage of total sales (%)					
Target	65	70	75	80	85
Performance	83	87	92	92	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>

INPUT

OUTPUT



*1 Energy for utility (ultra-pure water, dry air, nitrogen, exhaust, cooling water) equipment

*2 Use during a ten-year period by customers of production shipped in the year ended March 31, 2017

Management Foundation

Patents

Number of patents held by region (SCREEN Holdings (former Dainippon Screen Mfg. Co., Ltd.) and major subsidiaries)

	2013	2014	2015	2016	2017
Number of patents held (in Japan)	1,907	1,991	2,127	2,098	2,115
Number of patents held (in North America)	562	545	676	716	771
Number of patents held (in Asia)	873	920	1,115	1,184	1,300
Number of patents held (in Europe)	260	253	242	224	232
Total	3,601	3,709	4,160	4,222	4,418

Patent allowance rates (SCREEN Holdings (former Dainippon Screen Mfg. Co., Ltd.) and major subsidiaries)

(%)

	2013	2014	2015	2016	2017
Patent allowance rate (Japan)	78	80	79	79	91
Patent allowance rate (overseas)	80	90	90	85	88
Total	79	83	86	82	90

Risk management

CSR Charter Education

	Pass ratio for final charter comprehension test
2017	90.5%

EHS education

Basic courses	General employee course (new graduates, mid-career recruits)	Courses by job function	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		EHS manager/secretariat course	Organization-specific courses	Course for specific persons handling chemical solutions or gases
			Issue-specific course for section committee members		Workplace vehicle operator course
			Internal EHS auditor course		Course for obtaining legal qualifications
			Environmental assessor course		Product EHS training
Risk assessor course		Course for obtaining legal qualifications			
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, etc. required for individual lines and groups		