

Sustainability Data Book

Annual Report 2019 Appendix

2019 SCREEN Group
Year ended March 31, 2019



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(Note)

• Business operating / functional support companies refer to the following seven companies:

Business operating companies: SCREEN Semiconductor Solutions Co., Ltd., SCREEN Graphic Solutions Co., Ltd., SCREEN Finetech Solutions Co., Ltd., SCREEN PE Solutions Co., Ltd., SCREEN Advanced System Solutions Co., Ltd.,

Functional support companies: SCREEN Business Support Solutions Co., Ltd., SCREEN IP Solutions Co., Ltd.

Data for fiscal years prior to the fiscal year ended March 31, 2018 include data for SCREEN Manufacturing Support Solutions Co., Ltd. (absorbed by SCREEN MFG Service Co., Ltd. in January 2019).

• All years shown are for the accounting year ending March 31 of the year shown. For example, "2019" or "FY2019" means the period from April 1, 2018 to March 31, 2019.

Social Report

Employees

Number of employees (SCREEN Holdings and business operating / functional support companies)

(Person)

		2015	2016	2017	2018	2019
Regular employee	Male	2,072	2,049	2,031	2,034	2,019
	Female	140	138	134	147	164
	Total	2,212	2,187	2,165	2,181	2,183
Contract employee	Male	8	10	13	19	24
	Female	3	1	2	0	0
	Total	11	11	15	19	24
Total		2,223	2,198	2,180	2,200	2,207

Number of employees by region (SCREEN Group)

(Person)

	2015	2016	2017	2018	2019
Japan	3,319	3,370	3,403	3,484	3,602
North America	386	353	368	384	430
Europe	454	448	470	508	497
Asia and Oceania	923	1,011	1,181	1,459	1,570
Total	5,082	5,182	5,422	5,835	6,099

Average age of employees (SCREEN Holdings and business operating / functional support companies)

(Age)

	2015	2016	2017	2018	2019
Male	45.3	45.6	45.6	45.5	44.9
Female	40.3	40.0	39.8	40.2	40.1
Total	45.0	45.3	45.3	45.1	44.6

Average length of service per employee (SCREEN Holdings and business operating / functional support companies)

(Years)

	2015	2016	2017	2018	2019
Male	20.4	20.7	20.6	20.1	19.1
Female	17.7	17.2	16.6	16.9	15.9
Total	20.3	20.4	20.3	19.9	18.9

Average annual salary per employee (SCREEN Holdings and business operating / functional support companies)

(Yen)

	2015	2016	2017	2018	2019
	8,455,000	8,894,000	9,188,000	9,554,000	9,623,000

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

Employee turnover (SCREEN Holdings and business operating / functional support companies)

(Person)

		2015	2016	2017	2018	2019
Early retirement	Male	10	7	4	19	31
	Female	2	1	0	0	2
	Total	12	8	4	19	33
Own volition	Male	23	18	10	8	29
	Female	1	4	1	0	3
	Total	24	22	11	8	32
Company decision	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Total	0	0	0	0	0
Employment transfer	Male	47	22	11	21	37
	Female	1	0	0	1	0
	Total	48	22	11	22	37
Other	Male	2	5	3	3	2
	Female	0	0	0	0	0
	Total	2	5	3	3	2

Notes 1: Excludes retirees.

2: "Early retirement" refers to employees who retired under the voluntary early retirement incentive program.

Diversity

Number of female employees (SCREEN Holdings and business operating / functional support companies)

(Person)

	2015	2016	2017	2018	2019
On professional career track	69	77	84	94	112
On clerical career track	71	61	50	53	52
Total	140	138	134	147	164

Ratio of female and non-Japanese employees by post (SCREEN Holdings and business operating / functional support companies)

(Person)

2019		Management post	(Of whom, General Managers or higher)	(Of whom, Corporate Officers)	Directors
Total		697	115	16	6
Ratio of female employees	Number of female employees	14	2	0	0
	Ratio of female employees	2.01%	1.74%	0.00%	0.00%
Ratio of non-Japanese employees	Number of non-Japanese employees	10	3	0	0
	Ratio of non-Japanese employees	1.43%	2.61%	0.00%	0.00%

Ratio of non-Japanese employees by employee (SCREEN Holdings and business operating / functional support companies)

(Person)

	2015	2016	2017	2018	2019
Non-Japanese	22	23	27	31	40
Ratio of non-Japanese employees	0.99%	1.05%	1.25%	1.42%	1.83%

Note: Domestic only

Employment of people with disabilities (SCREEN Holdings and business operating / functional support companies)

(Person)

		2015	2016	2017	2018	2019
Number employed	Male	46	45	44	50	55
	Female	6	7	9	12.5	14
	Total	52	52	53	62.5	69
Employment ratio		2.02%	2.03%	2.05%	2.35%	2.59%

Reemployment of after retirement age (SCREEN Holdings and business operating / functional support companies)

(Person)

		2015	2016	2017	2018	2019
Number of reemploying employees	Male	38	45	67	93	122
	Female	6	4	4	4	3
	Total	44	49	71	97	125

Employment creation

Recruitment results (SCREEN Holdings and business operating / functional support companies)

(Person)

		2015	2016	2017	2018	2019
New graduates	Male	45	44	44	47	55
	Female	2	10	8	7	11
	Total	47	54	52	54	66
Mid-career employees	Male	7	3	27	63	96
	Female	1	0	0	5	9
	Total	8	3	27	68	105

Retention of new graduates three years after hiring (SCREEN Holdings and business operating / functional support companies)

(%)

	hired in 2012.4	hired in 2013.4	hired in 2014.4	hired in 2015.4	hired in 2016.4
Male	88.6	90.2	97.7	97.7	93.2
Female	100	75	100	100	100
Total	89.5	87.8	97.8	98.1	94.2

Work-life balance

Number of employees taking advantage of childcare-related systems (SCREEN Holdings and business operating / functional support companies) (Person)

		2015	2016	2017	2018	2019* ¹
Number of employees who took maternity leave		9	7	8	2	6
Number of employees taking childcare leave (By year leave started)	Male	2	0	0	1	57*²
	Female	9	9	6	5	5
	Total	11	9	6	6	62
Number of employees using a short working hours system due to childcare	Male	0	0	3	2	1
	Female	50	44	48	45	45
	Total	50	44	51	47	46

*1 Introduced spouse childcare leave system in the fiscal year ended March 31, 2019.

*2 Of those taking childcare leave, 57 were men taking spouse childcare leave. One of these 57 men used spouse childcare leave in unison with childcare leave.

Ratio of employees taking childcare leave (SCREEN Holdings and business operating / functional support companies) (%)

		2015	2016	2017	2018	2019
Male		3.08	0	0	1.23	91.94
Female		100	100	100	100	100
Total		14.86	12.33	8.82	7.14	92.54

Number of employees taking advantage of family care-related systems (SCREEN Holdings and business operating / functional support companies) (Person)

		2015	2016	2017	2018	2019
Number of employees taking family care leave (short term)*	Male	2	1	2	1	1
	Female	0	0	0	0	1
	Total	2	1	2	1	2
Number of employees taking family care leave (long term)*	Male	1	0	1	1	0
	Female	0	0	0	0	0
	Total	1	0	1	1	0
Number of employees using a short working hours system due to family care	Male	0	0	0	0	0
	Female	0	0	0	0	1
	Total	0	0	0	0	1

Note: Family-Care Leave: up to 93 days in total under the law; Long-term Care Leave: 235 days from the day following the date of expiration of Family-Care Leave period.

Percentage of annual paid leave taken by employees (SCREEN Holdings and business operating / functional support companies) (%)

	2015	2016	2017	2018	2019
Percentage of annual paid leave taken	71.5	75.9	75.0	74.5	80.8

Notes: 1. Percentage of annual paid leave days (23 days per year) taken.

2. Only general staff

Occupational health and safety

Notes: 1. Occupational accidents: Work-related injury, illness or death that leads any treatment at medical institution.

2. Incidents: Fire, explosion, gas leak, chemical outflow, collapse or collision, that is not leading to injuries or deaths, and resulting damage to facilities, machinery or equipment. Also, a traffic accident (property damage only).

Number of occupational accidents and incidents (SCREEN Group in Japan)

	2015	2016	2017	2018	2019
Occupational accidents at SCREEN Holdings and business operating / functional support companies	5	4	5	6	5
Incidents at SCREEN Holdings and business operating / functional support companies	6	3	4	4	3
Occupational accidents at other group companies	7	3	5	15	9
Incidents at other group companies	1	3	5	5	4
Occupational accidents at partner companies	5	4	6	7	16
Incidents at partner companies	8	1	2	3	1
Occupational accidents resulting in four or more days of lost work	1	3	3	1	4

As of the fiscal year ended March 31, 2019, occupational accidents at partner companies increased by double from previous year.

Number of occupational accidents and incidents (overseas Group companies)

	2015	2016	2017	2018	2019
Occupational accidents at overseas companies	11	13	13	15	14
Incidents at overseas companies	2	7	2	14	8
Occupational accidents at SCREEN Holdings and business operating / functional support companies (person on temporary transfer)	0	0	0	0	0
Incidents at SCREEN Holdings and business operating / functional support companies (person on temporary transfer)	0	0	0	0	0
Occupational accidents at partner companies	0	0	0	2	0
Incidents at partner companies	0	0	0	0	0

Occupational health and safety activities: Targets and performance

		Targets	Actual performance
2016	Occupational accidents resulting in four or more days of lost work	Zero occupational accidents	3
	Occupational accidents points*	No more than 250 points	290 points
	Global number of accidents leading to lost workdays	No more than ten accidents	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	Occupational accidents resulting in four or more days of lost work	Zero occupational accidents	3
	Occupational accidents points*	No more than 250 points	350 points
	Global number of accidents leading to lost workdays	No more than ten accidents	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%
2018	Occupational accidents resulting in four or more days of lost work	Zero occupational accidents	1
	Occupational accidents points*	No more than 250 points	350 points
	Global number of accidents leading to lost workdays	—	10
	Traffic accidents or incidents	—	10
	Periodic health examination	—	100%
	Health examination of employees posted overseas	—	90%
2019	Occupational accidents resulting in four or more days of lost work	Zero occupational accidents	4
	Occupational accidents points*	No more than 250 points	570 points
	Global number of accidents leading to lost workdays	—	14
	Traffic accidents or incidents	—	6
	Periodic health examination	—	100%
	Health examination of employees posted overseas	—	94%

For GV 21, Phase IV, which started beginning with the fiscal year ended March 31, 2018, we are working toward the goals indicated under "Occupational accidents resulting in four or more days of lost work" and "Occupational accident points."

For the fiscal year ended March 31, 2019, the number of occupational accidents at partner companies increased, so we were unable to achieve our goals.

* Internal points system for occupational accidents.

Frequency rate of occupational accidents

	2015	2016	2017*	2018	2019
Frequency rate of occupational accidents at SCREEN Holdings and business operating / functional support companies	0.22	0.00	0.19	0.00	0.25
Industry average of manufacturers in Japan	1.06	1.06	1.15	1.02	1.20
Industry average of manufacturers of electrical equipment in Japan	0.41	0.54	0.51	0.45	0.58

Note: Frequency rate = [(Number of injuries or deaths/hours worked) x 1,000,000] indicates number of injuries or deaths from occupational accidents per 1 million hours of work.
 Note: The data has been changed from the fiscal year ended March 31, 2017 to January-December 2016. This is consistent with the industry average calculation period.

Severity rate of occupational accidents

	2015	2016	2017*	2018	2019
Severity rate of occupational accidents at SCREEN Holdings and business operating / functional support companies	0.01	0.00	0.01	0.00	0.00
Industry average of manufacturers in Japan	0.09	0.06	0.07	0.08	0.10
Industry average of manufacturers of electrical equipment in Japan	0.01	0.03	0.05	0.02	0.02

Note: Severity rate = [(Days of work lost / total working hours) x 1,000] indicates number of days lost per 1,000 hours of work.
 Note: The data has been changed from the fiscal year ended March 31, 2017 to January-December 2016. This is consistent with the industry average calculation period.

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 assessor education
2016	89	55	42	7	65
2017	76	73	37	31	61
2018	82	82	38	31	88
2019	104	100	38	3	40

EHS training system

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

Code of Conduct training/CSR activities

CSR charter training (SCREEN Group in Japan)

(%)

	2017	2018	2019
e-learning completion rate	90.5	86.5	92.0
CSR Talk participation rate	—	81.8	81.0

CSR activities

Environmental preservation	<ul style="list-style-type: none"> • In 2018, signed agreement on preserving forest uses as part of CSR activities in the area of environmental preservation. • Since 2018, participating in the Kyoto Life and Culture Collaborative Rejuvenation Project promoted by the City of Kyoto. Under a three-year plan, we are promoting cultivation of endangered rare plants by planting garden beds at our Head Office location (in Kyoto). • Since 2016, we have been a sponsor of the Kyoto Municipal zoo as a feed sponsor. • Since 2016, we have sponsored renovation at the Lake Biwa Museum.
Support for Science and education	<ul style="list-style-type: none"> • Since 2015, we have been a sponsor of the Science Inter-College Research Presentation Conference sponsored by the Ministry of Education, Culture, Sports, Science and Technology, and have awarded the "SCREEN Prize." • Since 2015, SCREEN Semiconductor Solutions has been a sponsor of the FIRST Robotics Competition, a high school robotics competition in the US. • Presented lectures at universities on Practical Exercises for Corporate CSR and engaged in dialog with students. • Since 2010, we have welcomed company visits at our Rakusai Site by high school students with an interest in science from countries around the world and who are attending the Japan Super Science Fair. • Since 2009, we have sponsored the Kyoto Manufacturing Hall of Fame and Manufacturing Workshop Learning, and hold school visits for elementary school students. In fiscal 2017, 512 elementary school students from 12 schools participated. • Since 2016, we have set up a booth at the Toy Contest Grand Prix in Kyoto where participants can have fun while learning how printing works. • Our head office gave company tours to high school students (from Okayama Prefecture, Tochigi Prefecture, and Kyoto Prefecture). • Our Monzen-nakacho Site (White Canvas MON-NAKA) has worked with nearby elementary schools to provide school visits for third graders since 2012. • We are a sponsor of the Museum of Astronomical Telescopes that preserves and displays valuable astronomical telescopes. • We collaborate with the PHP Compassion Campaign to collect and forward used postage stamps.
Sports/Culture Assistance & Promotion	<ul style="list-style-type: none"> • We are supporting creative activities by displaying artwork in the lobbies of our Head Office and Rakusai Site done by artists belonging to Tensai-Art KYOTO, a non-profit research organization promoting art by people with disabilities. • Sponsor of the National Wheelchair Ekiden Race competition since 2014. • Sponsor of the Kyoto Ladies Open since 2014.
Community Service	<ul style="list-style-type: none"> • The SCREEN Group conducts regular cleanups around each of our facilities. • Since 1990, our Hikone Plant has been working with local residents to clean up the Ota River, which flows in front of the facility. • Employees of our Yasu Plant participate as volunteers in the Yasu City "Operation Zero Garbage" in Yasu City. • Since 2014, we have participated as volunteers in the Gion Festival "Operation Zero Garbage." • Since 1985, we have participated as volunteer "float pullers" in the grand procession of floats in the Gion Festival.
Social Welfare	<ul style="list-style-type: none"> • Once a month, during lunch breaks, cookies and miscellaneous goods made at disabled employment support facilities are sold at the Head Office, Hikone Plant, and Nishikyogoku site. • SCREEN HD Korea does volunteer work at the Seoul Welfare Center for the Elderly. • At Inca Digital Printers, employees participate in various fundraising events and donate to charitable organizations. • Since 2010, we have co-sponsored "Table For Two" activities, where each meal eaten also delivers a meal to children in developing countries. Since 2010, we will have provided a total of more than 140,000 meals.

Awards and certifications (related to CSR)

Awards and Certifications

	Recipient	Award giving organization	Content of award or recognition	Result
June 2018	SCREEN Holdings	NPO Table for Two International	Silver Supporter	Certified
July 2018	SCREEN Holdings Corporate Officer Tadashi Kawarabayashi	Ministry of Internal Affairs and Communications	Received the 2018 Minister of Internal Affairs and Communications Safety Award (individual category)	Commended
October 2018	SCREEN SPE Taiwan Co., Ltd.	Micron Technology Taiwan, Inc.	Received an award for outstanding contractor of EHS management performance	Awarded
November 2018	SCREEN Graphic Solutions Co., Ltd.	Japan Federation of Printing Industries	Received a 2018 Green Printing Eco Award (equipment category)	Awarded
December 2018	SCREEN Semiconductor Solutions Co., Ltd.	Taiwan Semiconductor Manufacturing Co. Ltd.	Received an Excellent performance in Wet Clean Equipment Award	Awarded
February 2019	SCREEN Holdings	Japan's Ministry of the Environment and the Global Environmental Forum	Received Excellence Prize in the environmental report category of the 22nd Environmental Communication Awards	Awarded
February 2019	Hikone Site	Shiga Prefecture Traffic Strategy Division	'Zero-Accident Certificate' issued under Shiga Prefecture Job-Specific Traffic Safety Zero-Accident Campaign	Commended
March 2019	SCREEN Holdings	Shiga Prefecture	Received 3 Stars, the highest evaluation, in the Shiga Biodiversity Conservation Certification Program, sponsored by the Shiga Prefectural Government	Certified
March 2019	SCREEN Holdings and business operating companies / functional support companies	Ministry of Economy, Trade and Industry	Company of Excellence for Health and Productivity Management 2019 (White 500)	Certified
March 2019	Hikone Site	Hikone/Inugami Region Safe Driving Managers Association	2018 Site-specific Movement to Eliminate Traffic Accidents and Violations	Awarded
March 2019	SCREEN Holdings	Lake Biwa Museum	Sponsor of the renovation project for Lake Biwa Museum	Awarded

Environmental Report

Environmental management

ISO certification status (SCREEN Group in Japan)

As of July 31, 2019

		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 Solutions Co., Ltd.	Acquired	Acquired	Acquired	Acquired	
	SCREEN Finetech Solutions Co., Ltd.	Acquired	Acquired	Acquired	Acquired	Acquired
	SCREEN PE Solutions Co., Ltd.	Acquired	Acquired	Acquired	Acquired	
	SCREEN Business Support Solutions Co., Ltd.		Acquired	Acquired	Acquired	Acquired
	SCREEN IP Solutions Co., Ltd.		Acquired	Acquired	Acquired	
	SCREEN Advanced System Solutions Co., Ltd.					
		ISO9001	ISO14001	OHSAS18001	ISO50001	ISO/IEC27001
Manufacturing	SCREEN SPE Tech Co., Ltd.	Acquired	Acquired	Acquired		
	SCREEN SPE Works Co., Ltd.	Acquired	Acquired	Acquired		
	SCREEN SPE Quartz Co., Ltd.	Acquired	Acquired	Acquired		
	SCREEN MFG Service Co., Ltd.		Acquired	Acquired		
Services	SCREEN SPE Service Co., Ltd.	Acquired	Acquired	Acquired		
	SCREEN GP Service Japan East Co., Ltd.	Acquired	Acquired	Acquired		Acquired
	SCREEN GP Service Japan West Co., Ltd.	Acquired	Acquired	Acquired		Acquired
	FEBACS Co., Ltd.	Acquired	Acquired	Acquired		
Others	SCREEN PE Engineering Co., Ltd.	Acquired	Acquired	Acquired		
	SCREEN SPE SSERC Co., Ltd.		Acquired	Acquired		
	SCREEN GP Japan Co., Ltd.		Acquired	Acquired		
	SCREEN ICT Software Co., Ltd.		Acquired	Acquired		Acquired
	SCREEN Logistics Co., Ltd.		Acquired	Acquired		
	SCREEN System Service Co., Ltd.		Acquired	Acquired		Acquired
	SCREEN Creative Communications Co., Ltd.	Acquired	Acquired	Acquired		
SCREEN Business Expert Co., Ltd.		Acquired	Acquired	Acquired		

ISO certification status (overseas)

As of July 31, 2019

		ISO9001	ISO14001	OHSAS18001
Manufacturing	SCREEN GP Hangzhou	Acquired	Acquired	
	Inca Digital Printers			Acquired
	Laser Systems & Solutions of Europe SASU			Acquired
Others	SCREEN HD Korea			Acquired

ISO certification acquisition rates

ISO9001 in business operating companies, manufacturing and service companies in Japan	65%
ISO9001 in overseas manufacturing sites	50%
ISO14001 in main sites and group companies in Japan	90%
ISO14001 in overseas manufacturing sites	17%
ISO50001 in main manufacturing sites in Japan	100%
OHSAS18001 in sites and group companies in Japan	90%

Legal compliance and reported complaints (SCREEN Group in Japan)

2015			
MEBACS	Waste Management and Public Cleansing Act	Used a waste-disposal company without concluding a subcontracting agreement	One case
Media Technology Japan	Road Traffic Act	Parking violation	One case
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.			
2018			
No particular issues arose.			
2019			
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 (Hikone Plant).	One case

As of March 2019, the Company reviewed in-house disposal procedures that did not conform with the Fluorocarbon Emission Restriction Law.

Environmental accounting

(SCREEN Group in Japan)

Environmental protection costs

(Millions of yen)

Category	Protection costs	Amount invested							
		2016	2017	2018	2019				
1. Cost within business area	1. Pollution prevention: Wastewater treatment facilities, air treatment facilities	155	196	218	177	22	24	41	92
	2. Environmental preservation: Inverters, facilities for preventing global warming	43	60	25	57	179	59	14	88
	3. Resource circulation: Appropriate waste disposal	83	66	71	73	0	0	10	0
2. Upstream/downstream costs	Recycled product business	702	444	742	805	0	0	0	0
3. Administration costs	Analysis and measurement, environmental management education	172	147	179	185	53	32	0	9
4. R&D costs	Development of environmentally friendly products	1,517	1,779	2,084	2,283	0	0	0	0
5. Social initiative costs	Publishing report, environmental beautification initiatives	12	19	16	32	5	19	11	15
6. Costs associated with resolving environmental damages		17	0	20	16	0	0	0	0
Total		2,701	2,739	3,356	3,623	259	134	77	204

Environmental preservation effects

(Metric tons)

(Millions of yen)

Category	Amount				Cost			
	2016	2017	2018	2019	2016	2017	2018	2019
Effects of reduction efforts on volume of chemical substances used	5	-4	-6	-5	9	-7	-10	-6
Effects of reduction efforts on amount of energy used	-847CO ₂	-2,647CO ₂	-755CO ₂	-2,628CO₂	210	-54	-1	44
Effects of reduction efforts on volume of waste emissions	169	-203	-534	-97	2	-2	-6	-1
Effects of resource conservation*	25	18	11	8	1,098	636	1,132	1,106
Total					1,319	572	1,114	1,143

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

Greenhouse gases

CO₂ emissions

(t-CO₂)

	2015	2016	2017	2018	2019
Business and manufacturing sites					
Hikone	26,254	26,328	26,268	26,874	24,539
Sites in head office area	1,073	795	736	1,574	1,582
Rakusai	4,281	4,181	3,849	5,490	5,254
Taga	4,590	4,695	4,902	5,184	5,825
Yasu	6,668	6,302	6,458	6,449	5,340
Kumiyama	2,168	2,164	2,318	2,365	2,221
Sites in Tokyo area	332	156	160	296	340
Others	4,005	4,471	5,760	2,913	2,836
SCREEN Group in Japan					
Scope 1	11,625	12,440	12,009	11,861	11,375
Scope 2	36,620	36,652	38,441	39,284	36,564
Scope 1 + Scope 2	48,245	49,092	50,451	51,145	47,939
Scope 1 + Scope 2 emissions per unit weight of product shipment (t-CO ₂ /ton)	8.47	6.76	6.71	6.72	5.98
Overseas Group companies					
Scope 1	787	398	254	373	242
Scope 2	3,594	3,033	2,652	3,258	2,385
Scope 1 + Scope 2	4,381	3,431	2,906	3,630	2,627
SCREEN Group					
Scope 1	11,835	11,436	12,263	12,234	11,617
Scope 2	40,790	41,087	41,093	42,542	38,949
Scope 1 + Scope 2	52,625	52,523	53,357	54,776	50,566
Scope 1 + Scope 2 emissions per sales unit (t-CO ₂ /ton)	22.0	20.2	17.8	16.1	13.9

For the fiscal year ended March 31, 2018, CO₂ emissions for the Group as a whole were 50,566t-CO₂, and its emissions per sales unit were 13.9 t-CO₂/JPY100M, a 14% improvement over the previous year. Our Group in Japan received third party verification of greenhouse gas emissions (GHG third party verification) for the fiscal year ended March 2018 (Scope 1 and Scope 2).

Scope 1: 11,375t-CO₂, Scope 2: 36,564t-CO₂ (includes carbon dioxide emissions from energy sources; excluding emissions from fuel consumed in vehicles).

Notes: 1. The method for tabulating CO₂ emissions from sites changed beginning from the fiscal year ended March 31, 2018. Data for each site includes CO₂ emissions from domestic

Group companies that share the same premises. Site data up to the fiscal year ended March 2017 does not include CO₂ emissions from domestic Group companies, except business operating and functional support companies.

2. The total for Head Office area sites includes emissions data from the Head Office, the Nishiyogoku Site, and the Kyoto Minami Site, all located in the Kyoto region.

3. The total for Tokyo region sites includes emissions data for sites located in the Tokyo region. For the fiscal year ended March 2018, the total included data for the Monzennakacho Site, the Shinagawa Office, and the Otsuka Site. The Kudan Office closed at the end of fiscal year ended March 2017. The Shinagawa Office opened beginning from the fiscal year ended March 2017.

4. Scope 2 is calculated on a market basis.

Energy consumption

(Thousands of gigajoules)

	2015	2016	2017	2018	2019
SCREEN Group in Japan					
Scope 1: Direct energy (town gas/LPG/kerosene)	221	211	207	205	197
Scope 2: Indirect energy (electricity)	723	703	752	765	815
Energy usage (Scope 1 + 2)	944	914	959	969	1,012
Overseas Group companies					
Scope 1: Direct energy (town gas/LPG/kerosene)	9	7	5	7	4
Scope 2: Indirect energy (electricity)	65	64	64	73	76
Energy usage (Scope 1 + 2)	74	71	68	79	81
SCREEN Group					
Scope 1: Direct energy (town gas/LPG/kerosene)	230	218	211	211	202
Scope 2: Indirect energy (electricity)	788	767	815	837	891
Energy usage (Scope 1 + 2)	1,018	985	1,027	1,049	1,093

For the fiscal year ended March 31, 2019, the Group's energy usage was 1,093,000 GJ, an increase of approximately 4% over the previous year.

Note: Uses a conversion factor of 9.97 x 10⁻³ GJ per kWh of electricity consumption.

Green power

(Thousands of gigajoules)

	2015	2016	2017	2018	2019
Purchase amount of green power	0	0	0	0	1,665
Solar cell power generation	360	370	355	366	354

As of March 31, 2019, the Company purchased green energy certificates for 1,665,000 kWh, corresponding to the amount of electricity consumed annually by its headquarters facilities, thereby completely eliminating all CO₂ emissions originating from electricity consumption.

Reduction measures targeting CO₂ emissions: Major initiatives

	Measure	Site	Reduction	
			CO ₂ reduction	Cost-cutting
2017	Replacement of air conditioners Cost-cutting	Kumiyama	CO ₂ reduction	69.4 metric tons/year
			Cost-cutting	¥2,942,000
	Replacement of water demineralizer pumps	Taga	CO ₂ 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	CO ₂ reduction	48.9 metric tons/year
			Cost-cutting	¥1,218,000
Replacement of office air conditioners CO ₂ reduction	Yasu	CO ₂ reduction	6.9 metric tons/year	
		Cost-cutting	¥171,000	
Replacement of office light bulbs with LEDs	MT Service Japan West Co., Ltd.	CO ₂ reduction	9.4 metric tons/year	
		Cost-cutting	¥518,000	
2018	Absorption chiller/heater replacement	Rakusai	CO ₂ reduction	576.1 metric tons/year
			Cost-cutting	¥18,290,000
	Air conditioner replacement and system overhaul	Rakusai	CO ₂ reduction	22.7 metric tons/year
			Cost-cutting	¥777,000
	Air conditioner air volume control modification	Yasu	CO ₂ reduction	5.4 metric tons/year
			Cost-cutting	¥138,000
	Office air conditioner replacement	Yasu	CO ₂ reduction	7.7 metric tons/year
			Cost-cutting	¥192,000
	Discharge pump replacement	Hikone	CO ₂ reduction	1.2 metric tons/year
			Cost-cutting	¥24,000
2019	Change of air conditioning method, switch to LED lighting	Rakusai	CO₂ reduction	873.0 metric tons/year
			Cost-cutting	¥24,031,000
	Upgrading of air conditioners in office building, upgrading of chillers for production cooling	Yasu	CO₂ reduction	99.0 metric tons/year
			Cost-cutting	¥2,489,000
	Replacement of multi air conditioners	Kumiyama	CO₂ reduction	23.0 metric tons/year
			Cost-cutting	¥631,000
	Change of air conditioning method	Nishikyogoku	CO₂ reduction	22.0 metric tons/year
			Cost-cutting	¥138,000
	Switch to LED lighting	Hikone	CO₂ reduction	19.0 metric tons/year
			Cost-cutting	¥447,000
	Upgrading of commercial-use water booster pump	Taga	CO₂ reduction	2.0 metric tons/year
			Cost-cutting	¥55,000
Green energy certificates		CO₂ reduction	724.0 metric tons/year	
		Cost-cutting	— yen	
CO₂ absorbed by SCREEN's forest preservation activities (Kyoto Model Forest)		CO₂ reduction	1.2 metric tons/year	
		Cost-cutting	— yen	

In the fiscal year ended March 31, 2019, we implemented measures at the Rakusai Site to reduce CO₂ emissions by approximately 1,770t-CO₂ per year, equivalent to about a 3% reduction in CO₂ emissions for the Group as a whole.

Note: Emission factors are those of the relevant year. Monetary amounts are calculated based on electricity costs.

Transportation and logistics

CO₂ emissions from logistics operations :Mode of transportation

(t-CO₂)

	2015	2016	2017	2018	2019
Vehicles	704	770	816	819	884
Ships	2	0.3	11.8	3.2	3.9
Railroads	1	0	0	0	0

Reduction in CO₂ emissions resulting from modal shift :Product transportation

	Number of shipments					CO ₂ reductions (t-CO ₂)				
	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
Marine transport	21	13	85	39	23		5	78.4	26.8	13.8
Rail transport	3	0	0	0	0	1	0	0	0	0

Number of trucks involved in transportation

	2016	2017	2018	2019
Number of trucks involved in product transportation	3,896	3,896	4,471	4,363
Number of trucks used for coastal shipping (to Kyushu)	13	86	39	23

Environmental consideration for the transportation packaging

	Initiative	Result
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 11%*
	Reduction in wooden materials, owing to revision of packaging sizes	Reduction of 25.75 tons in wooden materials used
2018	Reuse of cushioning materials at parts centers	Reuse of 837 kg of cushioning materials
	Promotion of ESPIE packaging using reinforced cardboard as packaging for the transportation of semiconductor and LCD fabrication equipment	Reduction of 225 tons in wooden materials used The rate of reduction in total use of wooden materials came to 7.9%*
	Reduction in wooden materials, owing to revision of packaging sizes	Reduction of 31.23 tons in wooden materials used
2019	Reuse of cushioning materials at parts centers	Reuse of 1,338 kg of cushioning materials
	Promotion of ESPIE packaging using reinforced cardboard as packaging for the transportation of semiconductor and LCD fabrication equipment	Reduction of 163 tons in wooden materials used The rate of reduction in total use of wooden materials came to 6.3%*
	Reduction in wooden materials, owing to revision of packaging sizes	Reduction of 31.38 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

Chemical substances

Substances subject to the PRTR Act (SCREEN Group in Japan)

(t)

Substance name	Cabinet order number	Usage				
		2015	2016	2017	2018	2019
Ferric chloride	71	46.2	40.8	44.2	49.3	47.4
Hydrogen fluoride and its salts	374	5.9	6.5	7.3	8.2	9.4

"Ferric chloride" and "Hydrogen fluoride and its water-soluble salts" are subject to reporting under the PRTR Law.

(Note: We reported annual use of more than 0.5 tons.)

(t)

Substance name	Amount of movement								
	Emissions to the atmosphere			Emissions to the water system			Amount of movement of wastes		
	2017	2018	2019	2017	2018	2019	2017	2018	2019
Ferric chloride	0	0	0	0	0	0	44.2	49.3	47.4
Hydrogen fluoride and its salts	0	0	0	0	0	0	7.3	8.2	9.4

"Ferric chloride" and "Hydrogen fluoride and its salts" are all treated as waste.

(Note: We reported annual use of more than 0.5 tons.)

PCB processing status (SCREEN Group in Japan)

(Number of units owned)

Type	2015	2016	2017	2018	2019
High-voltage capacitors	0	0	0	0	0
Low-voltage capacitors	0	0	0	0	0
Fluorescent light ballasts	179	179	179	179	179
Transformers	0	0	0	0	0
Reactors	0	0	0	0	0
Capacitors*	0	0	0	0	0

Completed packaging and registration of 179 fluorescent light ballasts; currently awaiting disposal.

*1 Devices containing low-concentrated PCB.

Materials input

Total amount of input materials: Resource type (SCREEN Group in Japan)

(t)

	2015	2016	2017	2018	2019
Total amount of input materials	12,033	13,544	14,250	13,887	13,779
Chemical substances	53	48	52	58	57

Waste/recycling

Breakdown of waste emissions (SCREEN Group in Japan)

(t)

	2015	2016	2017	2018	2019
Total volume of waste emissions	1,924	1,755	1,961	2,495	2,592
Volume of recycled waste	1,854	1,670	1,891	2,380	2,463
Recycling rate (%)	96.4%	95.2%	96.4%	95.4	95.0
Volume of waste for final disposal	70	85	71	115	129

Total volume of waste emissions by business and manufacturing site

(t)

	2015	2016	2017	2018	2019
SCREEN Group in Japan					
Business and manufacturing site					
Hikone	1,030	910	824	1,312	1,183
Sites in head office area	30	21	25	42	48
Rakusai	59	69	53	92	100
Taga	114	118	112	225	300
Yasu	201	221	148	170	184
Kumiyama	209	155	190	328	427
Sites in Tokyo area	18	36	16	20	22
Others	263	226	593	307	326
Total of business and manufacturing sites	1,924	1,755	1,964	2,495	2,592
Overseas Group companies	124	93	100	201	173
SCREEN Group	2,048	1,848	2,064	2,696	2,765

* Tokyo area facilities include the Kudan Office (now closed) up to the fiscal year ended March 2017. The Shinagawa Office (newly opened) is included beginning with fiscal year ended March 2017.

Breakdown of external waste emissions

(t)

	2015	2016	2017	2018	2019
Resources of value	879.9	732.6	817.6	1071.9	1041.4
Sludge waste	376.5	371.4	394.2	525.7	413.4
General-purpose paper	151.6	24.8	39.7	27.3	52.5
Waste plastic	208.6	131.9	144.5	186.4	249.8
Waste acid (special)	110.5	100.5	112.4	117.5	142.2
Cardboard	176.4	26.9	40.2	50.2	46.3
Cloth, wood scrap	110.6	107.3	134.5	124.2	204.0
Waste alkali	14.8	13.5	14.0	15.7	18.8
Scrap metal	347.8	19.8	29.7	30.2	85.6
Paper	177.0	43.8	44.1	75.4	105.6
Waste oil	20.8	21.4	24.6	59.1	56.4
Waste oil (special)	39.0	37.0	46.2	49.9	58.7
Ceramics, glass	17.5	10.8	28.9	19.1	18.5
Waste alkali (special)	19.1	20.0	27.4	27.6	21.5
Electrical wiring, PCBs	11.1	0.7	9.6	1.2	1.8
Burnable waste	58.9	7.0	8.6	9.0	8.1
Waste film	41.0	19.1	23.6	26.3	30.1
Batteries	4.8	0.8	0.9	0.8	1.4
Waste acid	0.7	1.7	12.3	63.8	24.9
Waste fluorescent lighting	0.8	3.6	2.2	3.1	1.6
Others	33.3	10.6	6.2	10.7	9.3

Breakdown of resources of value indicated above

(t)

	2015	2016	2017	2018	2019
Cardboard	154.4	152.7	190.4	198.5	304.4
Metals	302.8	246.5	262.8	499.1	381.7
General-purpose paper	131.5	123.0	167.1	251.8	258.4
Polyvinyl chloride	74.4	69.2	72.5	32.1	25.7
Film	23.3	0.0	0.0	0.0	0.0
Glass (wafers)	1.4	0.8	2.1	0.9	1.3
Magazines, catalogs	124.6	130.3	117.3	76.2	29.6
Others	67.5	10.1	5.5	13.4	40.3

Recycling rates by business and manufacturing site

(%)

	2015	2016	2017	2018	2019
Business and manufacturing sites					
Hikone Site	99.0	96.0	99.0	98.5	96.1
Sites in head office area	99.7	89.6	97.7	95.2	96.8
Rakusai Site	88.2	81.6	91.0	99.0	97.0
Taga Plant	100.0	100.0	100.0	100.0	100
Yasu Plant	92.0	95.2	95.2	89.3	86.2
Kumiyama Plant	100.0	100.0	100.0	100.0	98.8
Sites in Tokyo area	100.0	99.6	99.7	98.2	98.0
Group companies in Japan	96.4	95.2	96.4	95.4	95.0

Green purchasing ratio

Green purchasing ratio (SCREEN Group in Japan)

(%)

	2015	2016	2017	2018	2019
Green purchasing ratio for office supplies	98.8	98.3	99.1	97.7	97.9

Water

Total water withdrawals

(Thousands of m³)

	2015	2016	2017	2018	2019
SCREEN Group in Japan					
Service water	262	281	308	316	328
Industrial water	1,560	1,704	1,696	1,697	1,703
Total	1,821	1,985	2,005	2,013	2,030
Overseas Group companies					
Service water	19	36	29	50	72
SCREEN Group	1,840	2,021	2,034	2,063	2,102

Total water discharges (SCREEN Group in Japan)

(Thousands of m³)

	2015	2016	2017	2018	2019
Public water areas, sewerage	1,821	1,959	1,978	1,971	1,976

BOD and COD emissions

(t)

	2015	2016	2017	2018	2019
BOD	0.8	4.9	3.8	3.5	3.7
COD	1.7	1.9	1.9	1.7	1.5

Note: Values reported for BOD and COD have been changed from measured values (mg/l) to discharged amounts (tons). Figures prior to fiscal year ended March 2015 are measured values (mg/l).

Air quality

SOx and NOx emissions (SCREEN Group in Japan)

(t)

	2015	2016	2017	2018	2019
SOx emissions	0.0	0.0	0.0	0.0	0.0
NOx emissions	8.6	2.3	2.6	3.4	2.4

Reducing environmental impacts of products

Percentage of total sales and number of Green Products (products designated environmentally friendly)

	2015	2016	2017	2018	2019
Number of green products	116	119	133	136	143
Percentage of total sales (%)	Target	75	80	90	92
	Performance	92	92	94	95

Note: Green Products (products designated environmentally friendly): Products are compared against a standard product and are certified as Green Products if they pass five standards in the categories of energy saving, resource conservation, reuse or recycling, safety and chemical substance management, and information availability. "Reduction of energy used by 25% or more" is one certification criteria. Visit the following website to learn more about certified green products: www.screen.co.jp/en/sustainability/environment/products

Green Value 21

Green Value 21, Phase IV targets and performance (2018 to 2020)

Key Measures	Description of Activities	2020 Targets	2019 Results
Environmental management	Environmental conservation		
	Reduce CO ₂ emissions	Reduce unit rate by 6% or more* ¹ (emission intensity = 8.64)	35% reduction (emission intensity = 5.98)
	Reduce energy consumption (in crude oil equivalents)	Reduce unit rate by 6% or more* ¹ (emission intensity = 3.92)	26% reduction (emission intensity = 3.10)
	Reduce waste* ²	Reduce unit rate by 6% or more* ¹ (emission intensity = 199)	7% reduction (emission intensity = 198)
	Promote biodiversity conservation	Implement action plans Note: Including measures to counter water-related risks	Implementation of SCREEN Forest preservation activities Kyoto Life and Culture Collaborative Rejuvenation Project: Implementation of tree-planting at head office Received 3 Stars in Shiga Biodiversity Award
Product EHS	Contribute to controlling CO ₂ emissions by products	Reduce unit rate by 6% or more* ¹ (emission intensity = 765)	12% reduction (emission intensity = 714)
	Expand sales of products certified as environmentally friendly	Make such products account for at least 95% of sales Note: 95% of internally certified Green Products	94%
	Train product safety experts	Certification rate of at least 2% * ⁴ Note: Internally certified Product Safety Experts	Certification rate 6% Note: Trained 76 product safety experts
	Comply with product-related laws and regulations	Implement action plans Note: Including measures to deal with substances contained in products, as well chemicals and gases	Begin surveys of contained chemical substances using chemSHERPA format in April 2018 Operation of HazardManager chemical gas management system
Disaster prevention & safety	Occupational safety and health		
	Zero occupational accidents	Zero occupational accidents resulting in four or more lost work days	Four occurrences
	Reduce occupational accident points	Group as a whole: fewer than 250 points Note: Internal point system for occupational accidents	570 points
Disaster prevention BCM	Achieve improvements by conducting drills	Conduct practice drills at least once a year	Practices held for teams of the headquarters disaster response office
	Firmly establish system for operating by the disaster response office	Implement action plans Note: Including operation of Bousaiz* ⁵	Use of the Bousaiz disaster information management system in times of natural disasters such as earthquakes, torrential rain, and typhoons * Addition of disaster information report functions to Bousaiz
Health management	Health monitoring		
	Reduce sick leave	Reduce percentage of sick leave days taken to less than previous year	0.615% (previous year 0.590%)
Integrated EHS Management	Promote elimination of passive exposure to tobacco smoke in the workplace	Implement action plans	Removal of indoor smoking areas at every sites
	Obtain certification for revised versions of management systems	Implement action plans	Preparation for shift to new standards for OHSMS and EnMS
	Develop human resources to promote EHS	Implement action plans	Implementation of training for the EHS Professional Certification System (Training 2 professionals, 19 experts, 23 specialists)
	Develop EHS information infrastructure	Implement action plans	Start of operation of the new EHS information system Green Management System in April 2018

Notes: *1 Compared to the fiscal year ended March 31, 2014, per unit weight of product shipments

*2 Waste = waste discharged – valuable resources recovered

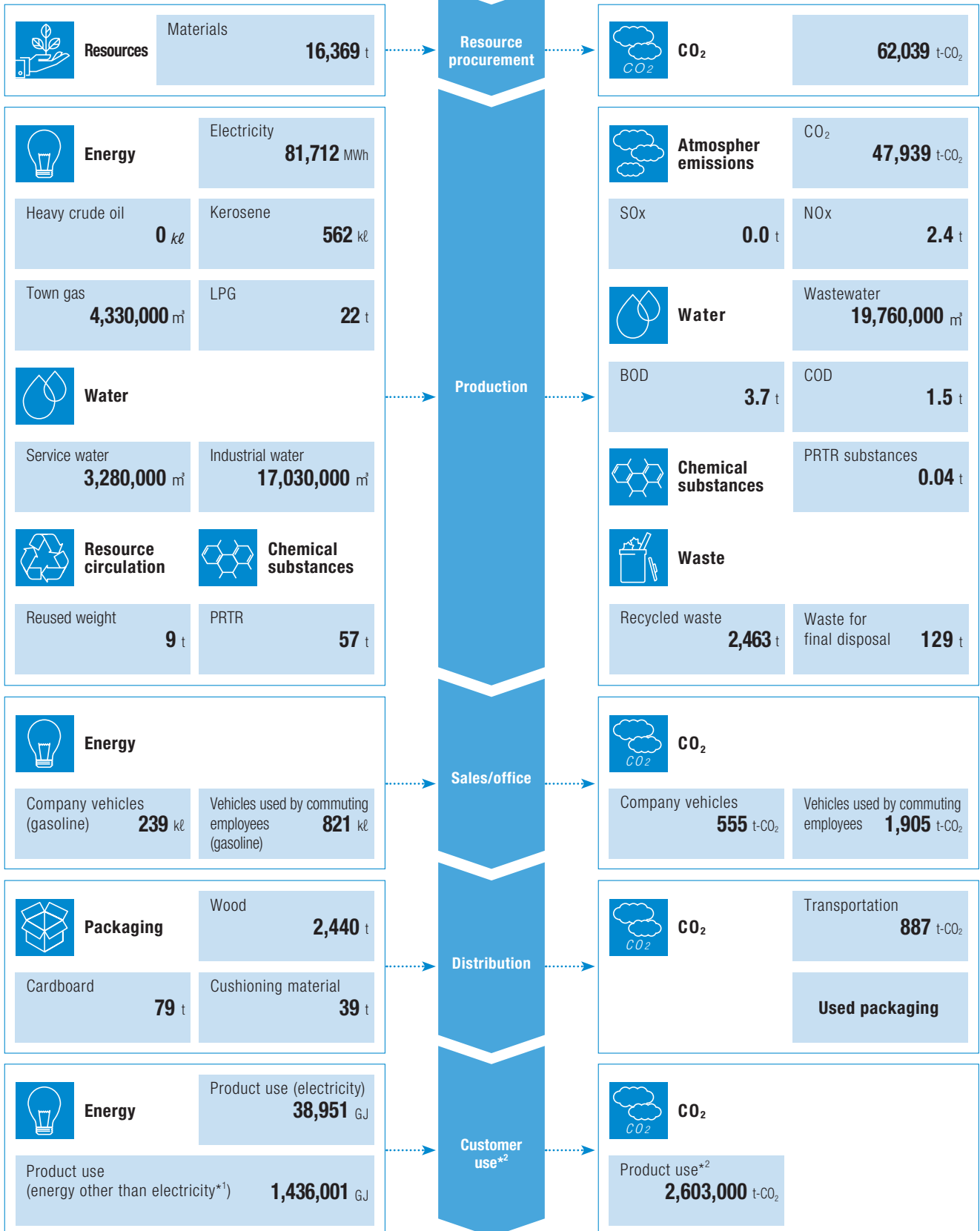
*3 Compared to the fiscal year ended March 31, 2014, per sales unit

*4 Certification rate = number of certified persons ÷ number of designers

*5 Bousaiz = System to manage information when a disaster occurs

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, 2019. For the CO₂ emission factor for electric power, we use 0.000512 t-CO₂/kWh, an alternative value for the grid electricity emission factor announced by the Ministry of the Environment, Ministry of Economy, Trade and Industry for December 2018.

Technical foundation

Patents

Number of patents held by region (SCREEN Holdings and business operating / functional support companies)

	2015	2016	2017	2018	2019
Japan	2,127	2,098	2,115	2,196	2,232
North America	676	716	771	819	860
Europe	242	224	232	258	300
Asia and Oceania	1,115	1,184	1,300	1,489	1,740
Total	4,160	4,222	4,418	4,762	5,132

Patent allowance rates (SCREEN Holdings and business operating / functional support companies)

(%)

	2015	2016	2017	2018	2019
Japan	79	79	91	88	90
Overseas	90	85	88	88	91
Total	86	82	90	88	90