

Sustainability Data Book 2020

Annual Report 2020 Appendix
SCREEN Group
Year ended March 31, 2020

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Note:

• If there is no description of the scope of each item, refer to SCREEN Holdings Co., Ltd. and the following "business operating companies" and "functional support company".
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 company: 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).

* Data for fiscal years prior to the fiscal year ended March 31, 2019 include data for SCREEN Business Support Solutions Co., Ltd. (taken over by SCREEN Business Expert Co., Ltd. in October 2019).

Social Report

Employees

Number of employees

(Persons)

		2016	2017	2018	2019	2020
Regular employee	Male	2,049	2,031	2,034	2,019	1,965
	Female	138	134	147	164	171
	Total	2,187	2,165	2,181	2,183	2,136
Contract employee	Male	10	13	19	24	34
	Female	1	2	0	0	0
	Total	11	15	19	24	34
Total		2,198	2,180	2,200	2,207	2,170

Number of employees by region (SCREEN Group)

(Persons)

	2016	2017	2018	2019	2020
Japan	3,370	3,403	3,484	3,602	3,601
North America	353	368	384	430	422
Europe	448	470	508	497	474
Asia and Oceania	1,011	1,181	1,459	1,570	1,577
Total	5,182	5,422	5,835	6,099	6,074

Average age of employees

(Age)

	2016	2017	2018	2019	2020
Male	45.6	45.6	45.5	44.9	44.6
Female	40.0	39.8	40.2	40.1	38.8
Total	45.3	45.3	45.1	44.6	44.2

Average length of service per employee

(Years)

	2016	2017	2018	2019	2020
Male	20.7	20.6	20.1	19.1	18.7
Female	17.2	16.6	16.9	15.9	14.4
Total	20.4	20.3	19.9	18.9	18.3

Average annual salary per employee

(Yen)

	2016	2017	2018	2019	2020
	8,894,000	9,188,000	9,554,000	9,623,000	8,805,000

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

Employee turnover

(Persons)

		2016	2017	2018	2019	2020
Early retirement	Male	7	4	19	31	12
	Female	1	0	0	2	0
	Total	8	4	19	33	12
Own volition	Male	18	10	8	29	18
	Female	4	1	0	3	3
	Total	22	11	8	32	21
Company decision	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Total	0	0	0	0	0
Employment transfer	Male	22	11	21	37	15
	Female	0	0	1	0	0
	Total	22	11	22	37	15
Other	Male	5	3	3	2	4
	Female	0	0	0	0	0
	Total	5	3	3	2	4

Notes 1: Excludes retirees.

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

Diversity

Number of female employees

(Persons)

	2016	2017	2018	2019	2020
On professional career track	77	84	94	112	126
On clerical career track	61	50	53	52	45
Total	138	134	147	164	171

Ratio of female and non-Japanese employees by post

(Persons)

2020		Management post	(Of whom, General Managers or higher)	(Of whom, Corporate Officers)	Directors
Total		649	120	27	6
Ratio of female employees	Number of female employees	15	2	0	0
	Ratio of female employees	2.31%	1.67%	0.00%	0.00%
Ratio of non-Japanese employees	Number of non-Japanese employees	7	2	0	0
	Ratio of non-Japanese employees	1.08%	1.67%	0.00%	0.00%

Note: Corporate officers include presidents.

Ratio of non-Japanese employees by employee

(Persons)

	2016	2017	2018	2019	2020
Non-Japanese	23	27	31	40	47
Ratio of non-Japanese employees	1.05%	1.25%	1.42%	1.83%	2.20%

Note: Domestic only

Employment of people with disabilities

(Persons)

		2016	2017	2018	2019	2020
Number employed	Male	45	44	50	55	56
	Female	7	9	12.5	14	13
	Total	52	53	62.5	69	69
Employment ratio		2.03%	2.05%	2.35%	2.59%	2.61%

Note: From "Report on Employment of Disabled Persons," submitted to Minister of Health, Labour and Welfare

Reemployment of after retirement age

(Persons)

		2016	2017	2018	2019	2020
Number of reemploying employees	Male	53	79	119	149	185
	Female	4	4	4	3	3
	Total	57	83	123	152	188

Employment creation

Recruitment results

(Persons)

		2016	2017	2018	2019	2020
New graduates	Male	44	44	47	55	51
	Female	10	8	7	11	21
	Total	54	52	54	66	72
Mid-career employees	Male	3	27	63	96	42
	Female	0	0	5	9	1
	Total	3	27	68	105	43

Retention of new graduates three years after hiring

(%)

	hired in 2013.4	hired in 2014.4	hired in 2015.4	hired in 2016.4	hired in 2017.4
Male	90.2	97.7	97.7	93.2	100
Female	75	100	100	100	71.4
Total	87.8	97.8	98.1	94.2	96.3

Work-life balance

Number of employees taking advantage of childcare-related systems

(Persons)

		2016	2017	2018	2019* ¹	2020
Number of employees who took maternity leave		7	8	2	6	5
Number of employees taking childcare leave (By year leave started)	Male	0	0	1	57	69* ²
	Female	9	6	5	5	6
	Total	9	6	6	62	75
Number of employees using a short working hours system due to childcare	Male	0	3	2	1	1
	Female	44	48	45	45	37
	Total	44	51	47	46	38

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

*2 Of those taking childcare leave (male), 67 people took spouse childcare leave and 9 people used the childcare leave system. (7 people used both together.)

Ratio of employees taking childcare leave

(%)

	2016	2017	2018	2019	2020
Male	0	0	1.2	91.9	90.8
Female	100	100	100	100	100
Total	12.3	8.8	7.1	92.5	91.5

Number of employees taking advantage of family care-related systems

(Persons)

		2016	2017	2018	2019	2020
Number of employees taking family care leave (short term)*	Male	1	2	1	1	0
	Female	0	0	0	1	0
	Total	1	2	1	2	0
Number of employees taking family care leave (long term)*	Male	0	1	1	0	0
	Female	0	0	0	0	1
	Total	0	1	1	0	1
Number of employees using a short working hours system due to family care	Male	0	0	0	0	0
	Female	0	0	0	1	1
	Total	0	0	0	1	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

(%)

	2016	2017	2018	2019	2020
	75.9	75.0	74.5	80.8	83.4

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)

(Unit)

	2016	2017	2018	2019	2020
Occupational accidents at SCREEN Holdings and business operating / functional support companies	4	5	6	5	2
Incidents at SCREEN Holdings and business operating / functional support companies	3	4	4	3	12
Occupational accidents at other group companies	3	5	15	9	4
Incidents at other group companies	3	5	5	4	0
Occupational accidents at partner companies	4	6	7	16	18
Incidents at partner companies	1	2	3	1	8
Occupational accidents resulting in four or more days of lost work	3	3	1	4	6

Number of occupational accidents and incidents (overseas Group companies)

(Unit)

	2016	2017	2018	2019	2020
Occupational accidents at overseas companies	13	13	15	14	17
Incidents at overseas companies	7	2	14	8	5
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	2	0	1
Incidents at partner companies	0	0	0	0	0

Occupational health and safety activities: Targets and performance

		Targets	Actual performance
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	No more than ten accidents	10
	Traffic accidents or incidents	No more than five incidents	10
	Periodic health examination	100%	100%
	Health examination of employees posted overseas	100%	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%
2020	Occupational accidents resulting in four or more days of lost work	Zero occupational accidents	6
	Occupational accidents points*	No more than 250 points	530 points
	Global number of accidents leading to lost workdays	—	8
	Traffic accidents or incidents	—	2
	Periodic health examination	—	100%
	Health examination of employees posted overseas	—	69%

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

* Internal points system for occupational accidents.

Frequency rate of occupational accidents

	2016/3	2016*	2017*	2018*	2019*
Frequency rate of occupational accidents	0.00	0.19	0.00	0.25	0.00
<Reference> Industry average of manufacturers in Japan (Source: Ministry of Health, Labor and Welfare)	1.06	1.15	1.02	1.20	1.20
<Reference> Industry average of manufacturers of electrical equipment in Japan (Source: Ministry of Health, Labor and Welfare)	0.54	0.51	0.45	0.58	0.54

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.
 * Years not listed as of the end of March refer to calendar years. For example, 2016 represents January 1 to December 31, 2016. This is consistent with the average calculation period used by the Ministry of Health, Labor and Welfare.

Severity rate of occupational accidents

	2016/3	2016*	2017*	2018*	2019*
Severity rate of occupational accidents	0.00	0.01	0.00	0.00	0.00
<Reference> Industry average of manufacturers in Japan (Source: Ministry of Health, Labor and Welfare)	0.06	0.07	0.08	0.10	0.10
<Reference> Industry average of manufacturers of electrical equipment in Japan (Source: Ministry of Health, Labor and Welfare)	0.03	0.05	0.02	0.02	0.01

Note: Severity rate = [(Days of work lost / total working hours) x 1,000] indicates number of days lost per 1,000 hours of work.
 * Years not listed as of the end of March refer to calendar years. For example, 2016 represents January 1 to December 31, 2016. This is consistent with the average calculation period used by the Ministry of Health, Labor and Welfare.

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

(Persons)

	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
2020	144	105	27	46	37

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	2020
e-learning completion rate	90.5	86.5	92.0	—
CSR Talk participation rate	—	81.8	81.0	86.3

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"> We signed a "comprehensive regional revitalization cooperation agreement" as part of efforts to become a world-leading and vibrant city by collaborating with Kyoto Prefecture. We have signed a comprehensive cooperation agreement with the Kyoto University of Advanced Science to foster and nurture "world-class human resources from Kyoto". We cooperated with the special Kansai SDGs Forum class sponsored by the Kansai University Senior High School. We attended the corporate CSR practice exercise at Ryukoku University and engaged students in dialog. Since 2015, SCREEN Semiconductor Solutions has been a sponsor of the FIRST Robotics Competition, a high school robotics competition in the US. 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). The Hikone Plant cooperated to allow the 'Junior IT School Advanced Factory Tour', sponsored by the Hikone Chamber of Commerce and Industry. The Hikone Plant gave high school students a tour of its facilities. 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. Since 2019, we have been supporting the Kyoto Purple Sanga professional soccer team's community outreach activities, which include sending the team's coaches to hold soccer classes at elementary schools. Since 2019, we have been sponsoring the Kyoto Football Association. Since 2018, we have been a sponsor of the museum partner system of the Kyoto National Museum. Our employees volunteer at the annual Kyoto Marathon. 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. 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 delivers a school lunch to children in developing countries. Since 2010, we have provided a total of more than 160,000 meals.

Awards and certifications (related to CSR)

Awards and Certifications

	Recipient	Award giving organization	Content of award or recognition	Result
May 2019	Taga Plant	Hikone / Nagahama branch of Shiga Labor Standards Association	No accidents for 1,640 days	Commended
June 2019	SCREEN Holdings Co., Ltd.	International Table for Two International (NPO)	Silver supporter	Certified
July 2019	Hikone Plant	Hikone Police Department; Manager of Shiga Prefecture Office of Japan Safe Driving Center	Silver commendation for being company exhibiting outstanding driving safety	Awarded
July 2019	Taga Plant	Governor of Shiga Prefecture	Promoting blood donation	Certificate of appreciation
July 2019	Yasu Plant	Chief of Moriyama Police Department; Manager of Shiga Prefecture Office of Japan Safe Driving Center	Bronze commendation for being company exhibiting outstanding driving safety	Awarded
July 2019	Yasu Plant	Shiga Food Bank	Support through food donations	Appreciation
July 2019	Yasu Plant	Japan Red Cross	Gold Medal of Merit for outstanding blood donation	Awarded
September 2019	SCREEN System Service Co., Ltd.	Kamigyo (Kyoto) Fire Department	Award of Excellence for participation in Kamigyo fire prevention drills	Awarded
October 2019	SCREEN Semiconductor Solutions Co., Ltd.	Shiga Prefecture	2019 Shiga Prefecture Low Carbon Society Award (corporate action plan category)	Awarded
October 2019	FEBACS Co., Ltd.	Ministry of Economy, Trade, and Industry	Recognized in METI's Health and Productivity Management Organization Recognition Program (SME category)	Certified
December 2019	SCREEN SPE Taiwan Co., Ltd. (SETW)	Ministry of Health and Welfare, Taiwan	Certified as a healthy workplace	Certified
January 2020	SCREEN Holdings Co., Ltd.	Chairperson, Kyoto Department of Education	Provided work experience to Kyoto high school students for 3 years	Commended
January 2020	SCREEN Holdings Co., Ltd.	Aoba Gakuen Foundation (childcare facility)	Donated 30 kg of rice harvested in model forest activities	Appreciation
February 2020	Hikone Plant	Shiga Prefecture Traffic Safety and Accident-free Campaign Executive Committee	SCREEN chosen in its industry for traffic safety-campaign	Awarded
February 2020	Yasu Plant	Shiga Prefecture Traffic Safety and Accident-free Campaign Executive Committee	SCREEN chosen in its industry for traffic violation prevention campaign (15 years with no traffic violations)	Awarded
February 2020	SCREEN GP Hangzhou Co., Ltd. (GPHZ)	Xiaoshan Economic and Technological Development Zone Management Committee	Affirmation of GPHZ fire management	Certified
March 2020	SCREEN Holdings and business operating companies / functional support companies	Ministry of Economy, Trade and Industry	Company of Excellence for Health and Productivity Management (large company category)	Certified
March 2020	Hikone Plant	Hikone / Inugami Region Safe Driving Managers Association	2019 Site-specific Movement to Eliminate Traffic Accidents and Violations	Awarded

Environmental Report

Environmental management

ISO certification status (SCREEN Group in Japan)

As of July 31, 2020

		ISO9001	ISO14001	ISO45001	ISO50001	ISO22301
Holding company	SCREEN Holdings Co., Ltd.		Acquired	Acquired	Acquired	Acquired
Business operating companies	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	
Functional support company	SCREEN IP Solutions Co., Ltd.		Acquired	Acquired	Acquired	

As of July 31, 2020

		ISO9001	ISO14001	ISO45001	ISO50001	ISO22301	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			
	SCREEN PE Engineering Co., Ltd.	Acquired	Acquired	Acquired			
Others	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	Acquired	

ISO certification status (overseas)

As of July 31, 2020

		ISO9001	ISO14001	ISO45001
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

As of July 31, 2020

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	92%
ISO14001 in overseas manufacturing sites	17%
ISO50001 in main manufacturing sites in Japan	100%
ISO45001 in sites and group companies in Japan	92%
ISO45001 in overseas manufacturing sites	17%

Legal compliance and reported complaints (SCREEN Group in Japan)

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
2020		
No particular issues arose.		

Environmental accounting

Environmental protection costs (SCREEN Group in Japan)

(Million yen)

Category	Protection costs				Amount invested				
	2017	2018	2019	2020	2017	2018	2019	2020	
1. Cost within business area	1. Pollution prevention: Wastewater treatment facilities, air treatment facilities	196	218	177	165	24	41	92	64
	2. Environmental preservation: Inverters, facilities for preventing global warming	60	25	57	63	59	14	88	84
	3. Resource circulation: Appropriate waste disposal	66	71	73	83	0	10	0	0
2. Upstream / downstream costs	Recycled product business	444	742	805	506	0	0	0	0
3. Administration costs	Analysis and measurement, environmental management education	147	179	185	166	32	0	9	4
4. R&D costs	Development of environmentally friendly products	1,779	2,084	2,283	2,153	0	0	0	0
5. Social initiative costs	Publishing report, environmental beautification initiatives	19	16	32	18	19	11	15	8
6. Costs associated with resolving environmental damages		0	20	16	15	0	0	0	0
Total		2,739	3,356	3,623	3,169	134	77	204	159

Environmental preservation effects

(Metric tons)

(Million yen)

Category	Amount				Cost			
	2017	2018	2019	2020	2017	2018	2019	2020
Effects of reduction efforts on volume of chemical substances used	-4	-6	-5	9	-7	-10	-6	13
Effects of reduction efforts on amount of energy used	-2,647CO ₂ e	-755CO ₂ e	-2,628CO ₂ e	-1,453CO₂e	-54	-1	44	33
Effects of reduction efforts on volume of waste	-203	-534	-97	435	-2	-6	-1	5
Effects of resource conservation*	18	11	8	2	636	1,132	1,106	666
Total					572	1,114	1,143	717

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

Greenhouse gases

CO₂ emissions

(metric tons CO₂e)

	2016	2017	2018	2019	2020
Business and manufacturing sites					
Hikone	26,328	26,268	26,874	24,539	26,856
Sites in head office area	795	736	1,574	1,582	1,384
Rakusai	4,181	3,849	5,490	5,254	4,457
Taga	4,695	4,902	5,184	5,825	6,005
Yasu	6,302	6,458	6,449	5,340	4,519
Kumiyama	2,164	2,318	2,365	2,221	1,760
Sites in Tokyo area	156	160	296	340	354
Others	4,471	5,760	2,913	2,836	2,690
SCREEN Group in Japan					
Scope 1	12,440	12,009	11,861*	11,375*	10,560*
Scope 2	36,652	38,441	39,284*	36,564*	37,465*
Scope 1 + Scope 2	49,092	50,451	51,145	47,939	48,025
Scope 1 + Scope 2 emissions per unit weight of product shipment (metric tons CO ₂ e/metric tons)	6.76	6.71	6.72	5.98	7.09
Overseas Group companies					
Scope 1	398	254	373	242	2,037
Scope 2	3,033	2,652	3,258	2,385	4,733
Scope 1 + Scope 2	3,431	2,906	3,630	2,627	6,769
SCREEN Group					
Scope 1	11,436	12,263	12,234	11,617	12,596
Scope 2	41,087	41,093	42,542	38,949	42,198
Scope 1 + Scope 2	52,523	53,357	54,776	50,566	54,794
Scope 1 + Scope 2 emissions per sales unit (metric tons CO ₂ e/hundred million yen)	20.2	17.8	16.1	13.9	17.0
Scope 3	2,305,000	2,632,000	2,384,000	2,764,000	2,257,000
Scope 3, category 11	2,230,000	2,543,000	2,306,000	2,603,000	2,149,000*

For the fiscal year ended March 31, 2020, CO₂ emissions for the Group as a whole were 54,974 metric tons CO₂e, an 8% increase over the previous year.

Notes: 1. The total for Head Office area sites includes emissions data from the Head Office, the Nishikyogoku Site, and the Kyoto Minami Site, all located in the Kyoto region.

2. The total for Tokyo region sites includes emissions data for sites located in the Tokyo region. 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 (newly opened) is included beginning with fiscal year ended March 2017.

3. Scope 1 is direct greenhouse gas (GHG) emissions. Scope 2 is indirect GHG emissions as power. Scope 3 is a total of 15 categories of indirect GHG emissions in the company's value chain. Scope 3 Category 11 is GHG emissions from the use of sold products.

Conducted third-party verification of greenhouse gas emissions (GHG third-party verification)

Scope 1: SCREEN Group in Japan: 10,560 metric tons CO₂e

Scope 2: SCREEN Group in Japan: 37,465 metric tons CO₂e

Scope 3, category 11: 2,149,000 metric tons CO₂e

Energy consumption

(MWh)

	2016	2017	2018	2019	2020
SCREEN Group in Japan					
Scope 1: Direct energy (town gas / LPG / kerosene)	58,612	57,481	56,867	54,835	50,815
Scope 2: Indirect energy (electricity)	69,349	75,389	76,684	81,712	86,944
Energy usage (Scope 1 + 2)	127,961	132,870	133,551	136,547	137,759
Overseas Group companies					
Scope 1: Direct energy (town gas / LPG / kerosene)	1,868	1,250	1,836	1,192	9,848
Scope 2: Indirect energy (electricity)	7,253	6,371	7,300	7,665	12,075
Energy usage (Scope 1 + 2)	9,121	7,621	9,136	8,857	21,923
SCREEN Group					
Scope 1: Direct energy (town gas / LPG / kerosene)	60,480	58,731	58,703	56,026	60,663
Scope 2: Indirect energy (electricity)	76,602	81,760	83,983	89,377	99,019
Energy usage (Scope 1 + 2)	137,082	140,491	142,686	145,403	159,682

For the fiscal year ended March 31, 2020, the Group's energy usage was 159,675 MWh, an increase of approximately 10% over the previous year.

Green power

(MWh)

	2016	2017	2018	2019	2020
Purchase amount of green power	0	0	0	1,665	1,706
Solar cell power generation	370	355	366	354	366

As of March 31, 2020, the Company purchased green energy certificates for 1,706,000 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
2018	Absorption chiller / heater replacement	Rakusai	576.1 metric tons CO ₂ e/year
			Cost-cutting ¥18,290,000
	Air conditioner replacement and system overhaul	Rakusai	22.7 metric tons CO ₂ e/year
			Cost-cutting ¥777,000
	Air conditioner air volume control modification	Yasu	5.4 metric tons CO ₂ e/year
			Cost-cutting ¥138,000
2019	Office air conditioner replacement	Yasu	7.7 metric tons CO ₂ e/year
			Cost-cutting ¥192,000
	Discharge pump replacement	Hikone	1.2 metric tons CO ₂ e/year
			Cost-cutting ¥24,000
	Change of air conditioning method, switch to LED lighting	Rakusai	873.0 metric tons CO ₂ e/year
			Cost-cutting ¥24,031,000
Fiscal year ended March 31,2020	Upgrading of air conditioners in office building, upgrading of chillers for production cooling	Yasu	99.0 metric tons CO ₂ e/year
			Cost-cutting ¥2,489,000
	Replacement of multi air conditioners	Kumiyama	23.0 metric tons CO ₂ e/year
			Cost-cutting ¥631,000
	Change of air conditioning method	Nishikyogoku	22.0 metric tons CO ₂ e/year
			Cost-cutting ¥138,000
	Switch to LED lighting	Hikone	19.0 metric tons CO ₂ e/year
			Cost-cutting ¥447,000
	Upgrading of commercial-use water booster pump	Taga	2.0 metric tons CO ₂ e/year
			Cost-cutting ¥55,000
	Green energy certificates		724.0 metric tons CO ₂ e/year
			Cost-cutting — yen
CO ₂ absorbed by SCREEN's forest preservation activities (Kyoto Model Forest)		8.5 metric tons CO ₂ e/year	
		Cost-cutting — yen	
Upgraded absorption chillers	Hikone Plant	221.7 metric tons CO₂e/year	
		Cost-cutting ¥5,190,000	
Upgraded absorption chillers (installed turbo chillers)	Taga Plant	932.6 metric tons CO₂e/year	
		Cost-cutting ¥12,052,000	
Upgraded air conditioning heat source equipment (Absorption hot and chilled water generator)	Kyoto Minami Site	41.2 metric tons CO₂e/year	
		Cost-cutting ¥1,440,000	
Green energy certificates		600.5 metric tons CO₂e/year	
		Cost-cutting — yen	
CO₂ absorbed by SCREEN's forest protection activities (Kyoto Model Forest program)		9.2 metric tons CO₂e/year	
		Cost-cutting — yen	

Notes: 1. In the fiscal year ended March 31, 2020, we implemented measures to reduce CO₂ emissions by 1,805 metric tons CO₂e per year, equivalent to about 3% reduction in CO₂ emissions for the Group as a whole.

2. 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

(metric tons CO₂e)

	2016	2017	2018	2019	2020
Vehicles	770	816	819	884	794
Ships	0.3	11.8	3.2	3.9	0.4
Railroads	0	0	0	0	0

Reduction in CO₂ emissions resulting from modal shift :Product transportation

(metric tons CO₂e)

	Number of shipments					CO ₂ reductions (metric tons CO ₂ e)				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
Marine transport	13	85	39	23	7	5	78.4	26.8	13.8	1.2
Rail transport	0	0	0	0	0	0	0	0	0	0

Number of trucks involved in transportation

(Number of trucks)

	2016	2017	2018	2019	2020
Number of trucks involved in product transportation	3,896	3,896	4,471	4,363	3,915
Number of trucks used for coastal shipping (to Kyushu)	13	86	39	23	7

Environmental consideration for the transportation packaging

	Initiative	Result
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 metric 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 metric 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 metric 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 metric 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 metric 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 metric tons in wooden materials used
2020	Reuse of cushioning materials at parts centers	Reuse of 1,138 kg of cushioning materials
	Promotion of ESPIE packaging using reinforced cardboard as packaging for the transportation of semiconductor and LCD fabrication equipment	Reduction of 73 metric 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 32 metric 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)

(metric tons)

Substance name	Cabinet order number	Usage				
		2016	2017	2018	2019	2020
Ferric chloride	71	40.8	44.2	49.3	47.4	45.4
Hydrogen fluoride and its salts	374	6.5	7.3	8.2	9.4	8.5

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

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

(metric tons)

Substance name	Amount of movement								
	Emissions to the atmosphere			Emissions to the water system			Amount of movement of wastes		
	2018	2019	2020	2018	2019	2020	2018	2019	2020
Ferric chloride	0	0	0	0	0	0	49.3	47.4	45.4
Hydrogen fluoride and its salts	0	0	0	0	0	0	8.2	9.4	8.5

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

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

PCB processing status (SCREEN Group in Japan)

(Number of units owned)

Type	2015	2016	2017	2018	2019	2020
High-voltage capacitors	0	0	0	0	0	0
Low-voltage capacitors	0	0	0	0	0	0
Fluorescent light ballasts	179	179	179	179	179	0
Transformers	0	0	0	0	0	0
Reactors	0	0	0	0	0	0
Capacitors*	0	0	0	0	0	0

*Completion of disposal of fluorescent light ballasts (fiscal year ended March 31, 2020)

Waste / recycling

Waste generated (SCREEN Group in Japan)

(metric tons)

	2016	2017	2018	2019	2020
Total volume of waste	1,755	1,961	2,495	2,592	2,157
Volume of recycled waste	1,670	1,891	2,380	2,463	2,080
Recycling rate (%)	95.2%	96.4%	95.4	95.0	96.4
Volume of waste for final disposal	85	71	115	129	77

Waste generated by office and by group company

(metric tons)

	2016	2017	2018	2019	2020
SCREEN Group in Japan					
Business and manufacturing site					
Hikone	910	824	1,312	1,183	1,140
Sites in head office area	21	25	42	48	68
Rakusai	69	53	92	100	78
Taga	118	112	225	300	212
Yasu	221	148	170	184	119
Kumiyama	155	190	328	427	264
Sites in Tokyo area	36	16	20	22	45
Others	226	593	307	326	230
Total of business and manufacturing sites	1,755	1,964	2,495	2,592	2,157
Overseas Group companies	93	100	201	173	146
SCREEN Group	1,848	2,064	2,696	2,765	2,304

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

Breakdown of waste generated

(metric tons)

	2016	2017	2018	2019	2020
Resources of value	732.6	817.6	1071.9	1041.4	827.1
Sludge waste	371.4	394.2	525.7	413.4	354.4
General-purpose paper	24.8	39.7	27.3	52.5	16.2
Waste plastic	131.9	144.5	186.4	249.8	276.0
Waste acid (special)	100.5	112.4	117.5	142.2	143.1
Cardboard	26.9	40.2	50.2	46.3	37.0
Cloth, wood scrap	107.3	134.5	124.2	204.0	200.5
Waste alkali	13.5	14.0	15.7	18.8	18.9
Scrap metal	19.8	29.7	30.2	85.6	10.4
Paper	43.8	44.1	75.4	105.6	75.2
Waste oil	21.4	24.6	59.1	56.4	60.0
Waste oil (special)	37.0	46.2	49.9	58.7	26.5
Ceramics, glass	10.8	28.9	19.1	18.5	22.1
Waste alkali (special)	20.0	27.4	27.6	21.5	18.2
Electrical wiring, PCBs	0.7	9.6	1.2	1.8	0.0
Burnable waste	7.0	8.6	9.0	8.1	10.0
Waste film	19.1	23.6	26.3	30.1	18.3
Batteries	0.8	0.9	0.8	1.4	2.7
Waste acid	1.7	12.3	63.8	24.9	30.3
Waste fluorescent lighting	3.6	2.2	3.1	1.6	2.3
Others	10.6	6.2	10.7	9.3	7.8

Breakdown of valuable materials recycled above

(metric tons)

	2016	2017	2018	2019	2020
Cardboard	152.7	190.4	198.5	304.4	301.2
Metals	246.5	262.8	499.1	381.7	237.1
General-purpose paper	123.0	167.1	251.8	258.4	200.8
Polyvinyl chloride	69.2	72.5	32.1	25.7	7.3
Film	0.0	0.0	0.0	0.0	0.0
Glass (wafers)	0.8	2.1	0.9	1.3	2.6
Magazines, catalogs	130.3	117.3	76.2	29.6	25.7
Others	10.1	5.5	13.4	40.3	52.3
Total	732.6	817.6	1071.9	1041.4	827.1

Breakdown of hazardous waste indicated above

(metric tons)

	2016	2017	2018	2019	2020
Waste acid (special)	100.5	112.4	117.5	142.2	143.1
Waste oil (special)	37.0	46.2	49.9	58.7	26.5
Waste alkali (special)	20.0	27.4	27.6	21.5	18.2
Total		186.0	195.1	222.4	187.8

Recycling rates by business and manufacturing site

(%)

	2016	2017	2018	2019	2020
Business and manufacturing sites					
Hikone Site	96.0	99.0	98.5	96.1	99.2
Sites in head office area	89.6	97.7	95.2	96.8	96.5
Rakusai Site	81.6	91.0	99.0	97.0	97.5
Taga Plant	100	100	100	100	100
Yasu Plant	95.2	95.2	89.3	86.2	83.2
Kumiyama Plant	100	100	100	98.8	100
Sites in Tokyo area	99.6	99.7	98.2	98.0	98.6
Group companies in Japan	95.2	96.4	95.4	95.0	96.4

Water

Water withdrawals

(Thousands m³)

	2016	2017	2018	2019	2020
SCREEN Group in Japan					
Industrial water	1,704	1,696	1,697	1,703	1,726
Service water	281	308	316	328	324
Groundwater		1.4	0.7	0.001	1.9
Total	1,985	2,005	2,013	2,030	2,052(2,026*)
Overseas Group companies					
Service water	36	29	50	72	35
SCREEN Group	2,021	2,034	2,063	2,102	2,087

*Underwent third-party verification regarding water withdrawal of 2,026,000 m³ at six main sites

6 main sites: Hikone Plant, Head Office, Rakusai Site, Taga Plant, Yasu Plant, Kumiyama Plant

Note: Groundwater has been included in SCREEN in Japan since the fiscal year ended March 31, 2020. For the program to protect Kyoto's indigenous plants, one of SCREEN's biodiversity activities, we are cautious about the water we give to plants and therefore use water found in nature (groundwater).

Total water discharges (SCREEN Group in Japan)

(Thousands m³)

	2016	2017	2018	2019	2020
Public water areas, sewerage	1,959	1,978	1,971	1,976	2,006

BOD and COD emissions

(metric tons)

	2016	2017	2018	2019	2020
BOD	4.9	3.8	3.5	3.7	3.3
COD	1.9	1.9	1.7	1.5	1.4

Ultra-pure water consumption

(Thousands m³)

	2016	2017	2018	2019	2020
Ultra-pure water consumption	240*	278*	641	627	613

*Only at Hikone Plant

Air quality

SOx and NOx emissions (SCREEN Group in Japan)

(metric tons)

	2015	2016	2017	2018	2019	2020
SOx emissions	0.0	0.0	0.0	0.0	0.0	0.0
NOx emissions	8.6	2.3	2.6	3.4	2.4	1.9

VOC emissions (Hikone Plant, Taga Plant)

(metric tons)

	2016	2017	2018	2019	2020
VOC emissions		317	305	280	284

Reducing environmental impacts of products

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

	2016	2017	2018	2019	2020
Number of green products	119	133	137	144	152
Percentage of total sales (%)	Target	80	85	90	95
	Performance	92	94	95	92

Note: Green Products (products designated environmentally friendly): Products are certified as Green Products if they score at least 10 points higher when compared to standard products, and if they pass standards in the five 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: 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	Targets	Results	Self-assessment	
Environmental management	Environmental conservation	Reduce CO ₂ emissions	Reduce unit rate by 6% or more* ¹ (emission intensity = 8.64)	22% reduction (emission intensity = 7.09)	Achievement
		Reduce energy consumption (in crude oil equivalents)	Reduce unit rate by 6% or more* ¹ (emission intensity = 3.92)	11% reduction (emission intensity = 3.70)	Achievement
		Reduce waste* ²	Reduce unit rate by 6% or more* ¹ (emission intensity = 199)	7% reduction (emission intensity = 197)	Achievement
		Promote biodiversity conservation	Implement action plans Note: Including measures to counter water-related risks	1. Implementation of SCREEN Forest preservation activities 2. Certified under Kyoto Life and Culture Collaborative Rejuvenation Project, implemented tree-planting at head office 3. Received 3 Stars in Shiga Biodiversity Award	Achievement
	Product EHS	Contribute to controlling CO ₂ emissions by products	Reduce unit rate by 6% or more* ¹ (emission intensity = 765)	82% reduction (emission intensity = 665)	Achievement
		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	92%	Non-achievement
		Train product safety experts	Certification rate of at least 2%* ⁴ Note: Internally certified Product Safety Experts	Certification rate 8% Note: Trained 96 product safety experts	Achievement
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	1. Introduced and began conducting surveys of contained chemical substances using chemSHERPA format 2. Firmly established operation of HazardManager chemical gas management system	Achievement	
Disaster prevention & safety	Occupational safety and health	Zero occupational accidents	Zero occupational accidents resulting in four or more lost work days	Six occurrences	Non-achievement
		Reduce occupational accident points	Group as a whole: fewer than 250 points Note: Internal point system for occupational accidents	530 points	Non-achievement
	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	Achievement
		Firmly establish system for operating by the disaster response office	Implement action plans Note: Including operation of Bousaiz* ⁵	1. Hold practice at the disaster control headquarters 2. Practice system for confirming people's whereabouts in a disaster 3. Put Bousaiz into operation and expand its functions 4. Formulate action plan for typhoons and torrential rain 5. Revise BCM system	Achievement
Health management	Health monitoring	Reduce sick leave	Reduce percentage of sick leave days taken to less than previous year	0.886% (previous year 0.615%)	Non-achievement
		Promote elimination of passive exposure to tobacco smoke in the workplace	Implement action plans	Analyze state of each site and display smoking rules	Achievement
Integrated EHS Management	Obtain certification for revised versions of management systems	Implement action plans	1. Completion of ISO 14001 certification for newest standards 2. Preparation to achieve certification for newest standards of ISO 45001 and ISO 50001	Achievement	
	Develop human resources to promote EHS	Implement action plans	Introduction of training for the EHS Professional Certification System (Training 2 professionals, 19 experts, 23 specialists)	Achievement	
	Develop EHS information infrastructure	Implement action plans	1. Introduction and start of operation of the new EHS information system, Green Management System 2. Introduction and start of operation of occupational accident reporting system	Achievement	

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

*2 Waste = waste generated – 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

Technical foundation

Patents

Number of patents held by region

	2016	2017	2018	2019	2020
Japan	2,098	2,115	2,196	2,232	2,320
North America	716	771	819	860	938
Europe	224	232	258	300	343
Asia and Oceania	1,184	1,300	1,489	1,740	2,103
Total	4,222	4,418	4,762	5,132	5,704

Patent allowance rates

	2016	2017	2018	2019	2020
Japan	79	91	88	90	88
Overseas	85	88	88	91	91
Total	82	90	88	90	90

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