

Sustainability Data Book 2021

Annual Report 2021 Appendix

SCREEN Group
Year ended March 31, 2021

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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

		2017	2018	2019	2020	2021
		(Persons)				
Regular employee	Male	2,031	2,034	2,019	1,965	1,932
	Female	134	147	164	171	186
	Total	2,165	2,181	2,183	2,136	2,118
Contract employee	Male	13	19	24	34	4
	Female	2	0	0	0	2
	Total	15	19	24	34	6
Total		2,180	2,200	2,207	2,170	2,124

● Number of employees by region (SCREEN Group)

	2017	2018	2019	2020	2021
(Persons)					
Japan	3,403	3,484	3,602	3,601	3,568
North America	368	384	430	422	409
Europe	470	508	497	474	460
Asia and Oceania	1,181	1,459	1,570	1,577	1,545
Total	5,422	5,835	6,099	6,074	5,982

● Average age of employees

	2017	2018	2019	2020	2021
(Age)					
Male	45.6	45.5	44.9	44.6	44.8
Female	39.8	40.2	40.1	38.8	39.3
Total	45.3	45.1	44.6	44.2	44.3

● Average length of service per employee

	2017	2018	2019	2020	2021
(Years)					
Male	20.6	20.1	19.1	18.7	18.8
Female	16.6	16.9	15.9	14.4	14.1
Total	20.3	19.9	18.9	18.3	18.4

● Average annual salary per employee

	2017	2018	2019	2020	2021
(Yen)					
	9,188,000	9,554,000	9,623,000	8,805,000	8,364,000

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

● Employee turnover

		2017	2018	2019	2020	2021
(Persons)						
Early retirement	Male	4	19	31	12	12
	Female	0	0	2	0	0
	Total	4	19	33	12	12
Own volition	Male	10	8	29	18	22
	Female	1	0	3	3	3
	Total	11	8	32	21	25
Company decision	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Total	0	0	0	0	0
Employment transfer	Male	11	21	37	15	15
	Female	0	1	0	0	0
	Total	11	22	37	15	15
Other	Male	3	3	2	4	2
	Female	0	0	0	0	0
	Total	3	3	2	4	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

(Persons)

	2017	2018	2019	2020	2021
On professional career track	84	94	112	126	135
On clerical career track	50	53	52	45	51
Total	134	147	164	171	186

Ratio of female and non-Japanese employees by post

(Persons)

2021		Management post (Of whom, General Managers or higher)	(Of whom, Corporate Officers)	Directors
Total		636	122	26
Ratio of female employees	Number of female employees	17	2	0
	Ratio of female employees	2.67%	1.64%	0.00%
Ratio of non-Japanese employees	Number of non-Japanese employees	5	1	0
	Ratio of non-Japanese employees	0.79%	0.82%	0.00%

Note: Corporate officers include presidents.

Ratio of non-Japanese employees by employee

(Persons)

	2017	2018	2019	2020	2021
Non-Japanese	27	31	40	47	45
Ratio of non-Japanese employees	1.25%	1.42%	1.83%	2.20%	2.12%

Note: Domestic only

Employment of people with disabilities

(Persons)

	2017	2018	2019	2020	2021
Number employed	Male	44	50	55	56
	Female	9	12.5	14	13
	Total	53	62.5	69	69
Employment ratio	2.05%	2.35%	2.59%	2.61%	2.58%

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

Reemployment of after retirement age

(Persons)

	2017	2018	2019	2020	2021
Number of reemploying	Male	79	119	149	185
	Female	4	4	3	3
	Total	83	123	152	188

Employment creation

Recruitment results

(Persons)

	2017	2018	2019	2020	2021
New graduates	Male	44	47	55	51
	Female	8	7	11	21
	Total	52	54	66	72
Mid-career employees	Male	27	63	96	42
	Female	0	5	9	1
	Total	27	68	105	43
Ratio of mid-career hires among regular employees	34.2%	55.7%	61.4%	37.4%	20.0%

Retention of new graduates three years after hiring

(%)

	hired in 2014.4	hired in 2015.4	hired in 2016.4	hired in 2017.4	hired in 2018.4
Male	97.7	97.7	93.2	100.0	100.0
Female	100.0	100.0	100.0	71.4	90.9
Total	97.8	98.1	94.2	96.3	98.5

Work-life balance

● Number of employees taking advantage of childcare-related systems

(Persons)

	2017	2018	2019* ¹	2020	2021
Number of employees who took maternity leave	8	2	6	5	8
Number of employees taking childcare leave (By year leave started)					
Male	0	1	57	69	58* ²
Female	6	5	5	6	6
Total	6	6	62	75	64
Number of employees using a short working hours system due to childcare					
Male	3	2	1	1	1
Female	48	45	45	37	43
Total	51	47	46	38	44

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

*2 Of those taking childcare leave (male), 54 people took spouse childcare leave and 10 people used the childcare leave system. (6 people used both together.)

● Ratio of employees taking childcare leave

(%)

	2017	2018	2019	2020	2021
Male	0.00	1.23	91.94	90.79	92.06
Female	100.00	100.00	100.00	100.00	100.00
Total	8.82	7.14	92.54	91.46	92.75

● Number of employees taking advantage of family care-related systems

(Persons)

	2017	2018	2019	2020	2021
Number of employees taking family care leave (short term)*					
Male	2	1	1	0	0
Female	0	0	1	0	0
Total	2	1	2	0	0
Number of employees taking family care leave (long term)*					
Male	1	1	0	0	0
Female	0	0	0	1	0
Total	1	1	0	1	0
Number of employees using a short working hours system due to family care					
Male	0	0	0	0	0
Female	0	0	1	1	0
Total	0	0	1	1	0

*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

(%)

	2017	2018	2019	2020	2021
	75.0	74.5	80.8	83.4	78.9

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

2. Only general staff

Occupational health and safety

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

(Unit)

	2017	2018	2019	2020	2021
Occupational accidents at SCREEN Holdings and business operating / functional support companies	5	6	5	2	3
Incidents at SCREEN Holdings and business operating / functional support companies	4	4	3	12	5
Occupational accidents at other group companies	5	15	9	4	6
Incidents at other group companies	5	5	4	0	2
Occupational accidents at partner companies	6	7	16	18	10
Incidents at partner companies	2	3	1	8	10
Occupational accidents resulting in four or more days of lost work	3	1	4	6	4

● Number of occupational accidents and incidents (overseas Group companies)

(Unit)

	2017	2018	2019	2020	2021
Occupational accidents at overseas companies	13	15	14	17	6
Incidents at overseas companies	2	14	8	5	0
Occupational accidents at SCREEN Holdings and business operating / functional support companies (person on temporary transfer)	0	0	0	0	3
Incidents at SCREEN Holdings and business operating / functional support companies (person on temporary transfer)	0	0	0	0	3
Occupational accidents at partner companies	0	2	0	1	2
Incidents at partner companies	0	0	0	0	0

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).

● Occupational health and safety activities

	2017	2018	2019	2020	2021
Occupational accidents resulting in four or more days of lost work (unit)	3	1	4	6	4
Occupational accidents points* (points)	350	350	570	530	420
Global number of accidents leading to lost workdays (unit)	13	10	14	8	6
Traffic accidents or incidents (cases)	2	10	6	2	4
Periodic health examination rate (%)	100	100	100	100	100
Health examination rate of employees posted overseas (%)	91	90	94	69	70

*Internal points system for occupational accidents (target: less than 250 points).

● **Frequency rate of occupational accidents**

	2016*	2017*	2018*	2019*	2020*
Frequency rate of occupational accidents	0.19	0.00	0.25	0.00	0.22
<Reference> Industry average of manufacturers in Japan (Source: Ministry of Health, Labor and Welfare)	1.15	1.02	1.20	1.20	1.21
<Reference> Industry average of manufacturers of electrical equipment in Japan (Source: Ministry of Health, Labor and Welfare)	0.51	0.45	0.58	0.54	0.52

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.

*Year as listed refers to the calendar year from January 1 to December 31. 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*	2017*	2018*	2019*	2020*
Severity rate of occupational accidents	0.01	0.00	0.00	0.00	0.01
<Reference> Industry average of manufacturers in Japan (Source: Ministry of Health, Labor and Welfare)	0.07	0.08	0.10	0.10	0.07
<Reference> Industry average of manufacturers of electrical equipment in Japan (Source: Ministry of Health, Labor and Welfare)	0.05	0.02	0.02	0.01	0.05

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)**

	2017	2018	2019	2020	2021
Education for new employees	76	82	104	144	67
Follow-up education for new employees	73	82	100	105	53
Management education	37	38	38	27	33
Foreman education	31	31	3	46	17
Risk assessor education	61	88	40	37	62

(Persons)

● **EHS training system**

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

Code of Conduct training / CSR activities

● **CSR charter training (SCREEN Group in Japan)**

	2018	2019	2020	2021
e-learning completion rate	86.5	92.0	—	94.5
CSR Talk participation rate	81.8	81.0	86.3	87.0

(%)

● CSR activities

Environmental conservation	<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, and are cooperating in promoting the Kyoto Model Forest program and advancing functions of forests that benefit the public good such as recharge of groundwater sources. • Since 2018, participating in the Kyoto Life and Culture Collaborative Rejuvenation Project promoted by the City of Kyoto. 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 been a sponsor of the Lake Biwa Museum.
Support for Science and education	<ul style="list-style-type: none"> • We will be actively involved in human resource development based on a comprehensive cooperation agreement with Kyoto University of Advanced Science. • We have signed an agreement with Kyoto Institute of Technology for comprehensive technology exchange with the aim of solving problems in the local community through implementation of technology within society. • We have concluded a comprehensive cooperation agreement with the Graduate School of Business at Doshisha University to collaborate and promote an MBA Education Functional Enhancement Project through Industry-Academia Collaboration. • We attended the corporate CSR practice exercise at Ryukoku University and engaged students in dialog. • We are a sponsor of the Museum of Astronomical Telescopes that preserves and displays valuable astronomical telescopes. • Since 2009, we have been providing educational support for elementary school students through Manufacturing Workshop Learning at the Kyoto Manufacturing Hall of Fame. • In September 2020, SCREEN SPE Singapore PTE. Ltd. donated "Do-It-Yourself" tote bags to the Singapore Children's Society. • Employees of SCREEN SPE USA, LLC in Arizona solicited donations, which were matched by the company, in support of Camp Kesem. • Since 2007, SCREEN HD Korea Co., Ltd. has been offering scholarships to local youth. • SCREEN SPE Korea Co., Ltd. has been providing ongoing support to families with children suffering from various illnesses and diseases to enable them to lead healthy lives.
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 and Monzennakacho Sites 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. • We co-sponsored the ONLINE KYOTO MARATHON 2021. • Sponsor of the Kyoto Ladies Open since 2014. • We are supporting Mr. Koji Yamasaki, an Olympic field hockey player competing for Japan, as a sponsor. • A memorial service is held every December on the premises of the Head Office at the Akōgishi Ihatu-tō, a small tower beneath which the hair of 17 executed loyal retainers (rōnin) is interred.
Community contribution	<ul style="list-style-type: none"> • We signed a "comprehensive regional revitalization cooperation agreement" with Kyoto Prefecture and together are implementing initiatives to find solutions to societal problems. • The SCREEN Group conducts regular cleanups around each of our facilities.
Social Welfare	<ul style="list-style-type: none"> • We made a donation to eight orphanages in Kyoto Prefecture of 540 kg of rice harvested from rice cultivation which we began as a result of our participation in the Kyoto Model Forest program. • We regularly renew our stores of emergency food, and since 2018, we have donated the surplus to Food Bank Shiga to support people in need. • 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 170,000 meals. • SCREEN HD Korea Co., Ltd. and Trivis participated in a blood donation drive by the Red Cross, which is facing a blood shortage due to the effects of COVID-19. • SCREEN SPE Korea Co., Ltd. provided support for infection prevention items such as masks and hand sanitizer to low-income households with school-age students (50 families) as well as children in the Daegu area to prevent COVID-19. • SCREEN SPE USA, LLC employees in Oregon donated to Americares.

Awards and certifications (related to CSR)

● Awards and Certifications

	Recipient	Award giving organization	Content of award or recognition	Result
2020 April	SCREEN Graphic Solutions Co., Ltd.	Japan Federation of Printing Industries	Under its Green Printing (GP) Certification System, four models are certified as "3 Stars" representing the highest level of environmental consideration.	Certified
2020 May	SCREEN SPE Service Co., Ltd.	Kyoto Prefectural University of Medicine Hospital	Letter of appreciation for donation of SEBAPRON chemically resistant aprons as a measure to combat infections by the COVID-19.	Commended
2020 June	Yasu Plant	Moriyama Yasu Safe Driving Managers Association Moriyama Police	Traffic Violation Prevention Campaign Award	Commended
2020 July	SCREEN Group	Kyoto Prefecture	One patent awarded "Grand Prize" and three patents received the "Invention Prize"	Awarded
2020 July	Yasu Plant	Moriyama Police Manager of Shiga Prefecture Office of Japan Safe Driving Center	Silver commendation for being company exhibiting outstanding driving safety	Awarded
2020 October	SCREEN HOLDINGS CO., LTD.	Kyoto City	Special commendation for mutual support in combatting COVID-19.	Commended
2020 November	SCREEN HOLDINGS CO., LTD.	Kumamoto Prefecture	Letter of appreciation for donations for reconstruction in the wake of heavy rains in July of 2020	Commended
2020 November	SCREEN Group	Japan Institute of Invention and Innovation	Four SCREEN Group patents receive the "Invention Incentive Award"	Awarded
2020 November	SCREEN GP China Co., Ltd	World Green Organization	Green Office Awards	Awarded
2020 December	SCREEN SPE Taiwan Co., Ltd	Taiwan Ministry of Welfare and Health	Healthy Workplace Award	Awarded
2021 March	FEBACS Co., Ltd	Ministry of Economy, Trade, and Industry	Recognized in METI's Health and Productivity Management Organization Recognition Program [SME category (Bright 500)]	Certified
2021 March	SCREEN HOLDINGS CO., LTD.	International Table for Two International (NPO)	Silver supporter	Certified
2021 March	SCREEN HOLDINGS CO., LTD.	Shiga Prefecture	Letter of appreciation for Shiga Prefecture Medical and Welfare Support Donation	Commended
	SCREEN HOLDINGS CO., LTD.	Kyoto Prefecture	Letter of appreciation for COVID-19 Control Support Donation	Commended
2021 March	SCREEN HOLDINGS CO., LTD.	Ministry of Economy, Trade, and Industry	Recognized in METI's Health and Productivity Management Organization Recognition Program (White 500)	Certified

Environmental Report

Management system

● ISO certification status (SCREEN Group in Japan)

As of July 31, 2021

		ISO9001	ISO14001	ISO45001	ISO50001	ISO22301	ISO/IEC27001
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		Acquired
	SCREEN Finetech Solutions Co., Ltd.	Acquired	Acquired	Acquired	Acquired	Acquired	
	SCREEN PE Solutions Co., Ltd.	Acquired	Acquired	Acquired	Acquired		
	SCREEN IP Solutions Co., Ltd.		Acquired	Acquired	Acquired		

As of July 31, 2021

		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			
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	Acquired		

● ISO certification status (SCREEN Group overseas)

As of July 31, 2021

		ISO9001	ISO14001	ISO45001
Manufacturing	SCREEN GP Hangzhou	Acquired	Acquired	
	Inca Digital Printers	Acquired		Acquired
	Laser Systems & Solutions of Europe SASU	Acquired		
Others	SCREEN HD Korea	Acquired		

● ISO certification acquisition rates

As of July 31, 2021 (%)

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)

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.
2021	No particular issues arose.

Environmental accounting

● Environmental protection costs (SCREEN Group in Japan)

Category	Protection costs (Million yen)				Amount invested (Million yen)				
	2018	2019	2020	2021	2018	2019	2020	2021	
1. Cost within business area	1. Pollution prevention: Wastewater treatment facilities, air treatment facilities	218	177	165	231	41	92	64	32
	2. Environmental preservation: Inverters, facilities for preventing global warming	25	57	63	76	14	88	84	8
	3. Resource circulation: Appropriate waste disposal	71	73	83	81	10	0	0	0
2. Upstream / downstream costs	Recycled product business	742	805	506	778	0	0	0	0
3. Administration costs	Analysis and measurement, environmental management education	179	185	166	286	0	9	4	71
4. R&D costs	Development of environmentally friendly products	2,084	2,283	2,153	2,151	0	0	0	0
5. Social initiative costs	Publishing report, environmental beautification initiatives	16	32	18	24	11	15	8	8
6. Costs associated with resolving environmental damages		20	16	15	73	0	0	0	0
Total		3,356	3,623	3,169	3,700	77	204	159	120

● Environmental preservation effects

Category	Amount (Metric tons)				Cost (Million yen)			
	2018	2019	2020	2021	2018	2019	2020	2021
Effects of reduction efforts on volume of chemical substances used	▲6	▲5	9	1	▲10	▲6	13	1
Effects of reduction efforts on amount of energy used	▲755CO ₂ e	2,628CO ₂ e	1,453CO ₂ e	2,999CO ₂ e	▲1	44	33	▲6
Effects of reduction efforts on volume of waste	▲534	▲97	435	▲224	▲6	▲1	5	▲3
Effects of resource conservation*	11	8	2	5	1,132	1,106	666	1,136
Total					1,114	1,143	717	1,128

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

Greenhouse gases

● CO₂ emissions

		2017	2018	2019	2020	2021
		(Metric tons CO ₂ e)				
Scope1						
	SCREEN Group in Japan	12,009	11,861*	11,375*	10,560*	9,950*
	SCREEN Group overseas	254	373	242	2,037	664
	SCREEN Group	12,263	12,234	11,617	12,594	10,614
Scope2						
	SCREEN Group in Japan	38,441	39,284*	36,564*	37,465*	36,007*
	SCREEN Group overseas	2,652	3,258	2,385	4,733	4,049
	SCREEN Group	41,093	42,542	38,949	42,198	40,056
Scope1+2						
	SCREEN Group in Japan	50,451	51,145	47,939	48,025	45,957
	SCREEN Group overseas	2,906	3,630	2,627	6,769	4,713
	SCREEN Group	53,357	54,776	50,566	54,792	50,670
	SCREEN Group in Japan Weight of product shipment (Metric tons CO ₂ e / metric tons)	6.71	6.72	6.12	7.09	7.00
	SCREEN Group Sales unit (Metric tons CO ₂ e / hundred million yen)	17.8	16.1	13.9	17.0	15.8
Scope3						
	SCREEN Group	2,632	2,384	2,764	2,257	2,307
	By category					
	1. Products / services to purchase	65.2	52.6	52.2	51.0	39.9
	2. Capital goods	(Not calculated)	(Not calculated)	0.527	24.0	7.84
	3. Fuel and energy-related activities	(Not calculated)	(Not calculated)	(Not calculated)	5.91	9.03
	4. Transportation / distribution (upstream)	0.828	0.822*	0.877*	0.795	0.863
	5. Waste generated from business and manufacturing sites	1.01	0.791	0.973	1.12	0.556
	6. Business trips	1.95	1.95	(Not calculated)	0.790	0.778
	7. Employee commuting	2.31	2.31	1.91	2.77	2.73
	8. Lease assets (upstream)	(Included in Scope 1,2)	(Included in Scope 1,2)	(Included in Scope 1,2)	(Included in Scope 1,2)	(Included in Scope 1,2)
	9. Transportation / distribution (downstream)	(Not calculated)	(Not calculated)	(Not calculated)	21.0	27.3
	10. Processing of sold products	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	11. Use of sold products	2,543	2,306	2,603	2,149*	2,218*
	12. Disposal of sold products	17.4	19.5	19.3	0.501	0.139
	13. Lease assets (downstream)	(Included in category 11)	(Included in category 11)	(Included in category 11)	(Included in category 11)	(Included in category 11)
	14. Furans	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
	15. Investment	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)

For the fiscal year ended March 31, 2021, total CO₂ emissions for the Group as a whole were 50,670 metric tons CO₂e, a decrease of approximately 7.5% over the previous year.

Note: Scope 1 is direct greenhouse gas (GHG) emissions. Scope 2 is indirect GHG emissions as power. Internationally recognized standards are used for calculating and reporting GHG emissions under the greenhouse gas (GHG) Protocol. Scope 2 emissions are calculated based on market standards.

Scope 3 is indirect GHG emissions that occur in the company's value chain.

From the fiscal year ended March 31, 2020, calculation methods for categories 1, 2, 5, 6, 7, and 12 were revised.

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

Scope 1 SCREEN Group in Japan: 9,950 metric tons CO₂e (covers carbon dioxide emissions from energy sources; does not include emissions associated with fuel use in mobile vehicles)

Scope 2 SCREEN Group in Japan: 36,007 metric tons CO₂e

Scope 3 Category 11: 2,218,000 metric tons CO₂e

● Green power

		2017	2018	2019	2020	2021
		(MWh)				
Green power	Purchase amount	0	0	1,665	1,706	1,662
	CO ₂ reductions (metric tons)			724.0	600.5	565.1
Solar cell power generation		355	366	354	366	348

As of March 31, 2021, the Company purchased green energy certificates for 1,662,000 kWh, corresponding to the amount of electricity consumed annually by its headquarters facilities, thereby completely eliminating all CO₂ emissions originating from electricity consumption.

● Energy consumption

(MWh)

	2017	2018	2019	2020	2021	
Scope1	Direct energy (town gas / LPG / kerosene)					
	SCREEN Group in Japan	57,481	56,867	54,835	50,808	47,818
	SCREEN Group overseas	1,250	1,836	1,192	9,848	2,202
	SCREEN Group	58,731	58,703	56,027	60,656	50,020
Scope2	Indirect energy (electricity)					
	SCREEN Group in Japan	75,389	76,684	81,712	86,944	87,812
	SCREEN Group overseas	6,371	7,300	7,665	12,075	10,654
	SCREEN Group	81,760	83,984	89,377	99,019	98,466
Scope1+2	Energy usage					
	SCREEN Group in Japan	132,870	133,551	136,547	137,752	135,630
	SCREEN Group overseas	7,621	9,136	8,857	21,923	12,856
	SCREEN Group	140,491	142,687	145,404	159,675	148,486

For the fiscal year ended March 31, 2021, the Group's energy usage was 148,486 MWh, a decrease of approximately 7.0% over the previous year.

● Reduction measures targeting CO₂ emissions: Major initiatives

	Measure	Site	Reduction	
2019	Change of air conditioning method, switch to LED lighting	Rakusai	CO ₂ reduction results	873.0 metric tons CO ₂ e/year
			Cost-cutting	¥24,031,000
	Upgrading of air conditioners in office building, upgrading of chillers for production cooling	Yasu	CO ₂ reduction results	99.0 metric tons CO ₂ e/year
			Cost-cutting	¥2,489,000
	Replacement of multi air conditioners	Kumiyama	CO ₂ reduction results	23.0 metric tons CO ₂ e/year
			Cost-cutting	¥631,000
	Change of air conditioning method	Nishikyogoku	CO ₂ reduction results	22.0 metric tons CO ₂ e/year
			Cost-cutting	¥138,000
	Switch to LED lighting	Hikone	CO ₂ reduction results	19.0 metric tons CO ₂ e/year
			Cost-cutting	¥447,000
Upgrading of commercial-use water booster pump	Taga	CO ₂ reduction results	2.0 metric tons CO ₂ e/year	
		Cost-cutting	¥55,000	
Green energy certificates		CO ₂ reduction results	724.0 metric tons CO ₂ e/year	
		Cost-cutting	— yen	
CO ₂ absorbed by SCREEN's forest preservation activities (Kyoto Model Forest)		CO ₂ reduction results	8.5 metric tons CO ₂ e/year	
		Cost-cutting	— yen	
2020	Upgraded absorption chillers	Hikone	CO ₂ reduction results	221.7 metric tons CO ₂ e/year
			Cost-cutting	¥5,190,000
	Upgraded absorption chillers (installed turbo chillers)	Taga	CO ₂ reduction results	932.6 metric tons CO ₂ e/year
			Cost-cutting	¥12,052,000
	Upgraded air conditioning heat source equipment (Absorption hot and chilled water generator)	Kyoto Minami	CO ₂ reduction results	41.2 metric tons CO ₂ e/year
			Cost-cutting	¥1,440,000
	Green energy certificates		CO ₂ reduction results	600.5 metric tons CO ₂ e/year
			Cost-cutting	— yen
	CO ₂ absorbed by SCREEN's forest protection activities (Kyoto Model Forest program)		CO ₂ reduction results	9.2 metric tons CO ₂ e/year
			Cost-cutting	— yen
2021	Renewal of air conditioners	Rakusai	CO ₂ reduction results	17.7 metric tons CO ₂ e/year
			Cost-cutting	¥257
	Replacement of air conditioners	Kumiyama	CO ₂ reduction results	25.4 metric tons CO ₂ e/year
			Cost-cutting	¥836
	Renovation of elevator	Kumiyama	CO ₂ reduction results	1.4 metric tons CO ₂ e/year
			Cost-cutting	¥44
	Replacement of air conditioners	SCREEN SPE Works	CO ₂ reduction results	9.7 metric tons CO ₂ e/year
			Cost-cutting	¥212
	Green energy certificates		CO ₂ reduction results	565.1 metric tons CO ₂ e/year
			Cost-cutting	— yen
CO ₂ absorbed by SCREEN's forest preservation activities (Kyoto Model Forest)		CO ₂ reduction results	3.3 metric tons CO ₂ e/year	
		Cost-cutting	— yen	

In the fiscal year ended March 31, 2021, we implemented measures to reduce CO₂ emissions by 623 metric tons CO₂e per year, equivalent to about 1.2% 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

	2017	2018	2019	2020	2021
Vehicles	816	819	884	794	863
Ships	11.8	3.2	3.9	0.4	0.3
Railroads	0	0	0	0	0

(Metric tons CO₂e)

Reduction in CO₂ emissions resulting from modal shift : Product transportation

	Number of shipments					CO ₂ reductions (Metric tons CO ₂ e)				
	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021
Marine transport	85	39	23	7	5	78.4	26.8	13.8	1.2	1.0
Rail transport	0	0	0	0	0	0	0	0	0	0

Number of trucks involved in transportation

	2017	2018	2019	2020	2021
Number of trucks involved in product transportation	3,896	4,471	4,363	3,915	4,034
Number of trucks used for coastal shipping (to Kyushu)	86	39	23	7	5

(Number of trucks)

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%* ¹
	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%* ¹
	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%* ¹
	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%* ¹
	Reduction in wooden materials, owing to revision of packaging sizes	Reduction of 32 metric tons in wooden materials used
2021	Reuse of cushioning materials at parts centers	Reuse of 571 kg of cushioning mater
	Reduction in use of air cap in packaging for the transportation of semiconductor equipment	Air cap reduction amount is 6t* ²

*1 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

*2 Revision of packing methods and implementation of safe transport and delivery of products without using air cap. Converting to ESPIE to regularize packaging. Reduction in wooden materials thanks to revision of packaging sizes to eliminate measurement.

Chemical substances

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

Substance name	Cabinet order number	Usage (Metric tons)				
		2017	2018	2019	2020	2021
Ferric chloride	71	44.2	49.3	47.4	45.4	46.4
Hydrogen fluoride and its salts	374	7.3	8.2	9.4	8.5	6.6

“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.

Substance name	Amount of movement (Metric tons)								
	Emissions to the atmosphere			Emissions to the water system			Amount of movement of wastes		
	2019	2020	2021	2019	2020	2021	2019	2020	2021
Ferric chloride	0	0	0	0	0	0	47.4	45.4	46.4
Hydrogen fluoride and its salts	0	0	0	0	0	0	9.4	8.5	6.6

“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)

Type	(Number of units owned)				
	2017	2018	2019	2020	2021
High-voltage capacitors	0	0	0	0	0
Low-voltage capacitors	0	0	0	0	0
Fluorescent light ballasts*1	179	179	179	0	0
Transformers*2	0	0	0	0	1
Reactors	0	0	0	0	0
Capacitors	0	0	0	0	0

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

*2 Counted as waste resulting from equipment upgrade (scheduled for disposal during fiscal year ending March 31, 2022).

Waste / recycling

● Waste and valuable materials disposal volume

(Metric tons)

	2017	2018	2019	2020	2021
SCREEN Group in Japan	1,961	2,495	2,592	2,157	2,385
SCREEN Group overseas	100	201	173	146	201
SCREEN Group	2,061	2,696	2,765	2,304	2,586

● Waste and valuable materials (SCREEN Group in Japan)

(Metric tons)

	2017	2018	2019	2020	2021
Total volume of waste generated and valuable materials	1,961	2,495	2,592	2,157	2,385
Volume of recycled waste	1,891	2,380	2,463	2,080	2,252
Recycling rate (%)	96.4	95.4	95.0	96.4	94.4
Volume of waste for final disposal	71	115	129	77	135

● Breakdown of waste (SCREEN Group in Japan)

(Metric tons)

	2017	2018	2019	2020	2021
Volume of hazardous waste	186.0	195.1	222.4	187.8	160.2
Sludge waste	394.2	525.7	413.4	354.4	366.7
General-purpose paper	39.7	27.3	52.5	16.2	19.5
Waste plastic	144.5	186.4	249.8	276.0	363.3
Cardboard	40.2	50.2	46.3	37.0	14.0
Cloth, wood scrap	134.5	124.2	204.0	200.5	172.1
Waste alkali	14.0	15.7	18.8	18.9	11.5
Scrap metal	29.7	30.2	85.6	10.4	19.2
Paper	44.1	75.4	105.6	75.2	72.3
Waste oil	24.6	59.1	56.4	60.0	64.1
Ceramics, glass	28.9	19.1	18.5	22.1	20.5
Electrical wiring, PCBs	9.6	1.2	1.8	0.0	0.0
Burnable waste	8.6	9.0	8.1	10.0	9.4
Waste film	23.6	26.3	30.1	18.3	0.0
Batteries	0.9	0.8	1.4	2.7	0.7
Waste acid	12.3	63.8	24.9	30.3	48.6
Waste fluorescent lighting	2.2	3.1	1.6	2.3	1.9
Others	6.2	10.7	9.3	7.8	4.7

● Breakdown of valuable materials (SCREEN Group in Japan)

(Metric tons)

	2017	2018	2019	2020	2021
Cardboard	190.4	198.5	304.4	301.2	296.7
Metals	262.8	499.1	381.7	237.1	472.1
General-purpose paper	167.1	251.8	258.4	200.8	211.2
Plastic	72.5	32.1	25.7	7.3	2.5
Film	0.0	0.0	0.0	0.0	0.0
Glass (wafers)	2.1	0.9	1.3	2.6	1.9
Magazines, catalogs	117.3	76.2	29.6	25.7	23.1
Others	5.5	13.4	40.3	52.3	29.0

Water

Water withdrawals

		2017	2018	2019	2020	2021
		(Thousands m ³)				
SCREEN Group in Japan	Industrial water	1,696	1,697	1,703	1,726	1,707
	Service water	308	316	328	324	305
	Groundwater	1.4	0.7	0.001	1.9	3.1
	Total	2,005	2,013	2,030	2,052	2,015
	6 main sites in Japan				2,026*	1,987*
SCREEN Group overseas	Service water	29	50	72	35	31
SCREEN Group		2,034	2,063	2,102	2,087	2,046

*Underwent third-party verification regarding water withdrawal at six main sites in Japan
6 main sites: Hikone Plant, Head Office, Rakusai Site, Taga Plant, Yasu Plant, Kumiya Plant

Water discharges (SCREEN Group in Japan)

		2017	2018年	2019	2020	2021
		(Thousands m ³)				
Public water area and public sewer		1,978	1,971	1,976	2,006	1,976

BOD and COD emissions

		2017	2018	2019	2020	2021
		(Thousands m ³)				
BOD* ¹		3.8	3.5	3.7	3.3	5.3
COD* ²		1.9	1.7	1.5	1.4	1.5

*1 Covered sites: Hikone Plant, Rakusai Site, Taga Plant, Yasu Plant, Kumiya Plant

*2 Covered sites: Hikone Plant, Yasu Plant

Ultra-pure water consumption

		2017	2018	2019	2020	2021
		(Thousands m ³)				
Ultra-pure water consumption*		278	641	627	613	607

*Covered sites: Hikone Plant, Rakusai Site, Taga Plant, Yasu Plant, SCREEN SPE Works Co., Ltd., SCREEN SPE Quartz Co., Ltd.

Exhaust air

SOx and NOx emissions (SCREEN Group in Japan)

		2017	2018	2019	2020	2021
		(Metric tons)				
SOx emissions		0.0	0.0	0.0	0.0	0.0
NOx emissions		2.6	3.4	2.4	1.9	2.6

VOC emissions (Hikone Plant, Taga Plant)

		2017	2018	2019	2020	2021
		(Metric tons)				
VOC emissions		317	305	280	284	226

Reducing environmental impacts of products

Number of Green Products and percentage of total sales

		2017	2018	2019	2020	2021
Number of green products		133	137	144	152	163
Percentage of total sales (%)		94	95	94	92	93

Green Products: Certified as a "Green Product" by comparing energy saving, resource conservation, reuse or recycling, safety and chemical substance management, and information availability to standard products.

Visit the following website to learn more about certified green products: www.screen.co.jp/en/sustainability/environment/products

Technical foundation

Patents

● Number of patents held by region

(Unit)

	2017	2018	2019	2020	2021
Japan	2,115	2,196	2,232	2,320	2,221
North America	771	819	860	938	1,063
Europe	232	258	300	343	274
Asia and Oceania	1,300	1,489	1,740	2,103	2,409
Total	4,418	4,762	5,132	5,704	5,967

● Patent allowance rates

(%)

	2017	2018	2019	2020	2021
Japan	91	88	90	88	88
Overseas	88	88	91	91	87
Total	90	88	90	90	88

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SDB2021E_2021.10 R1