

Sustainability Data Book

Annual Report 2018 Appendix

2018 SCREEN Group
Fiscal year ended March 31, 2018



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- Green purchasing ratio

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(Note)

• Business operating / functional support companies refer to the following eight 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 Manufacturing Support Solutions Co., Ltd., SCREEN Business Support Solutions Co., Ltd., SCREEN IP Solutions Co., Ltd.

• All years shown are for the accounting year ending March 31 of the year shown. For example, "2018" means the period from April 1, 2017 to March 31, 2018.

Social Report

Employees

Number of employees

(Person)

| | | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|--------|-------|-------|-------|-------|--------------|
| SCREEN Holdings and business operating / functional support companies | Male | 2,084 | 2,072 | 2,049 | 2,031 | 2,034 |
| | Female | 144 | 140 | 138 | 134 | 147 |
| | Total | 2,228 | 2,212 | 2,187 | 2,165 | 2,181 |
| SCREEN Group | | 4,968 | 5,082 | 5,182 | 5,422 | 5,835 |

Number of employees by region (SCREEN Group)

(Person)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------------|-------|-------|-------|-------|--------------|
| Japan | 3,316 | 3,319 | 3,370 | 3,403 | 3,484 |
| North America | 385 | 386 | 353 | 368 | 384 |
| Europe | 403 | 454 | 448 | 470 | 508 |
| Asia and Oceania | 864 | 923 | 1,011 | 1,181 | 1,459 |
| Total | 4,968 | 5,082 | 5,182 | 5,422 | 5,835 |

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

(Age)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|--------|------|------|------|------|-------------|
| Male | 44.6 | 45.3 | 45.6 | 45.6 | 45.5 |
| Female | 39.6 | 40.3 | 40.0 | 39.8 | 40.2 |
| Total | 44.3 | 45.0 | 45.3 | 45.3 | 45.1 |

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

(Years)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|--------|------|------|------|------|-------------|
| Male | 19.8 | 20.4 | 20.7 | 20.6 | 20.1 |
| Female | 16.5 | 17.7 | 17.2 | 16.6 | 16.9 |
| Total | 19.6 | 20.3 | 20.4 | 20.3 | 19.9 |

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

(Yen)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|-----------|-----------|-----------|-----------|------------------|
| | 7,619,000 | 8,455,000 | 8,894,000 | 9,188,000 | 9,554,000 |

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

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

(Person)

| | | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------------|--------|------|------|------|------|-----------|
| Early retirement | Male | 8 | 10 | 7 | 4 | 19 |
| | Female | 0 | 2 | 1 | 0 | 0 |
| | Total | 8 | 12 | 8 | 4 | 19 |
| Own volition | Male | 8 | 23 | 18 | 10 | 8 |
| | Female | 1 | 1 | 4 | 1 | 0 |
| | Total | 9 | 24 | 22 | 11 | 8 |
| Company decision | Male | 0 | 0 | 0 | 0 | 0 |
| | Female | 0 | 0 | 0 | 0 | 0 |
| | Total | 0 | 0 | 0 | 0 | 0 |
| Employment transfer | Male | 35 | 47 | 22 | 11 | 21 |
| | Female | 0 | 1 | 0 | 0 | 1 |
| | Total | 35 | 48 | 22 | 11 | 22 |
| Other | Male | 3 | 2 | 5 | 3 | 3 |
| | Female | 0 | 0 | 0 | 0 | 0 |
| | Total | 3 | 2 | 5 | 3 | 3 |

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)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------------------------|------|------|------|------|------|
| On professional career track | 66 | 69 | 77 | 84 | 94 |
| On clerical career track | 78 | 71 | 61 | 50 | 53 |
| Total | 144 | 140 | 138 | 134 | 147 |

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

(Person)

| 2018 | | Management post | (Of whom, General Managers or higher) | (Of whom, Corporate Officers) | Directors |
|---------------------------------|---------------------------------|-----------------|---------------------------------------|-------------------------------|-----------|
| Ratio of female employees | Male | 723 | 112 | 16 | 6 |
| | Female | 10 | 1 | 0 | 0 |
| | Total | 733 | 113 | 16 | 6 |
| | Ratio of female employees | 1.36% | 0.88% | 0.00% | 0.00% |
| Ratio of non-Japanese employees | Japanese | 726 | 110 | 16 | 6 |
| | Non-Japanese | 7 | 3 | 0 | 0 |
| | Total | 733 | 113 | 16 | 6 |
| | Ratio of non-Japanese employees | 0.95% | 2.65% | 0.00% | 0.00% |

Note: Directors are for SCREEN Holdings only.

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

(Person)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------------------------|-------|-------|-------|-------|-------|
| Japanese | 2,209 | 2,190 | 2,164 | 2,138 | 2,150 |
| Non-Japanese | 19 | 22 | 23 | 27 | 31 |
| Total | 2,228 | 2,212 | 2,187 | 2,165 | 2,181 |
| Ratio of non-Japanese employees | 0.85% | 0.99% | 1.05% | 1.25% | 1.42% |

Note: Domestic only

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

(Person)

| | 2014.6 | 2015.6 | 2016.6 | 2017.6 | 2018.6 |
|------------------|--------|--------|--------|--------|--------|
| Number employed | Male | 46 | 46 | 45 | 44 |
| | Female | 7 | 6 | 7 | 9 |
| | Total | 53 | 52 | 52 | 53 |
| Employment ratio | 2.02% | 2.02% | 2.03% | 2.05% | 2.35% |

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

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

(Person)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------------------------|--------|------|------|------|------|
| Number of reemploying employees | Male | 48 | 38 | 45 | 67 |
| | Female | 4 | 6 | 4 | 4 |
| | Total | 52 | 44 | 49 | 71 |

Employment creation

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

(Person)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|----------------------|--------|------|------|------|------|
| New graduates | Male | 41 | 45 | 44 | 44 |
| | Female | 8 | 2 | 10 | 8 |
| | Total | 49 | 47 | 54 | 52 |
| Mid-career employees | Male | 3 | 7 | 3 | 27 |
| | Female | 0 | 1 | 0 | 0 |
| | Total | 3 | 8 | 3 | 27 |

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

(%)

| | hired in 2011.4 | hired in 2012.4 | hired in 2013.4 | hired in 2014.4 | hired in 2015.4 |
|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Male | 100 | 88.6 | 90.2 | 97.7 | 97.7 |
| Female | — | 100 | 75 | 100 | 100 |
| Total | 100 | 89.5 | 87.8 | 97.8 | 98.1 |

Note: New graduates are those who joined the company on April 1 or October 1 of each year.

Work-life balance

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

| | | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|--------|------|------|------|------|------|
| Number of employees who took maternity leave | | 10 | 9 | 7 | 8 | 2 |
| Number of employees taking childcare leave (By year leave started) | Male | 0 | 2 | 0 | 0 | 1 |
| | Female | 9 | 9 | 9 | 6 | 5 |
| | Total | 9 | 11 | 9 | 6 | 6 |
| Number of employees using a short working hours system due to childcare | Male | 1 | 0 | 0 | 3 | 2 |
| | Female | 47 | 50 | 44 | 48 | 45 |
| | Total | 48 | 50 | 44 | 51 | 47 |

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

| | | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|---------|-------|-------|-------|------|------|
| Ratio of employees taking childcare leave | Male | 0 | 3 | 0 | 0 | 1.23 |
| | Female* | 100 | 100 | 100 | 100 | 100 |
| | Total | 10.23 | 14.86 | 12.33 | 8.82 | 7.14 |

* Childcare leave is taken by all female employees who are giving birth, so the ratio among eligible female employees is recorded as 100%.

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

| | | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|--------|------|------|------|------|------|
| Number of employees taking family care leave (short term)* | Male | 1 | 2 | 1 | 2 | 1 |
| | Female | 0 | 0 | 0 | 0 | 0 |
| | Total | 1 | 2 | 1 | 2 | 1 |
| Number of employees taking family care leave (long term)* | Male | 0 | 1 | 0 | 1 | 1 |
| | Female | 0 | 0 | 0 | 0 | 0 |
| | Total | 0 | 1 | 0 | 1 | 1 |
| Number of employees using a short working hours system due to family care | Male | 0 | 0 | 0 | 0 | 0 |
| | Female | 0 | 0 | 0 | 0 | 0 |
| | Total | 0 | 0 | 0 | 0 | 0 |

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) (%)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------------------------------|------|------|------|------|------|
| Percentage of annual paid leave taken | 70.9 | 71.5 | 75.9 | 75.0 | 74.5 |

Human resource development

| Human resource utilization | Training/personal development support system |
|------------------------------------|---|
| Objective-based management | Training according to career level |
| Self-reporting of career plan | Skill/knowledge education |
| Multi-faceted evaluation | Technical education |
| Career Challenge internal transfer | Selected group training (Business Leadership Training Course) |
| Internal recruiting | Sent to MBA/MOT graduate school in Japan or abroad |
| In-house internship | Career development support |
| | Financial incentives to acquire professional certifications |

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)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|------|------|------|------|------|
| Occupational accidents at SCREEN Holdings and business operating / functional support companies | 1 | 5 | 4 | 5 | 6 |
| Incidents at SCREEN Holdings and business operating / functional support companies | 5 | 6 | 3 | 4 | 4 |
| Occupational accidents at other group companies | 8 | 7 | 3 | 5 | 15 |
| Incidents at other group companies | 0 | 1 | 3 | 5 | 5 |
| Occupational accidents at partner company | 13 | 5 | 4 | 6 | 7 |
| Incidents at partner company | 2 | 8 | 1 | 2 | 3 |
| Occupational accidents resulting in four or more days of lost work | 1 | 1 | 3 | 3 | 1 |

* The number of occupational accidents resulting in four or more days of lost work was '1' as of March 2018. However, while the number is an improvement from the previous fiscal year, the target of '0' could not be achieved.

Number of occupational accidents and incidents (overseas Group companies)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|------|------|------|------|------|
| Occupational accidents at overseas companies | 11 | 11 | 13 | 13 | 15 |
| Incidents at overseas companies | 13 | 2 | 7 | 2 | 14 |
| 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 company | 0 | 0 | 0 | 0 | 2 |
| Incidents at partner company | 0 | 0 | 0 | 0 | 0 |

• As of March, 2018, incidents and accidents among workers at Group companies had increased in tandem with an increase in the number of field service personnel.

Occupational health and safety activities: Targets and performance

| | | Targets | Actual performance |
|------|---|------------------------------------|--------------------|
| 2015 | Occupational accidents resulting in four or more days of lost work | Zero occupational accidents | 1 |
| | Occupational accidents points* | No more than 250 points | 290 points |
| | Global number of accidents leading to lost workdays | No more than ten accidents | 9 |
| | Traffic accidents or incidents | No more than five incidents | 6 |
| | Periodic health examination | 100% | 100% |
| | Health examination of employees posted overseas | 100% | 100% |
| 2016 | Occupational accidents resulting in four or more days of lost work | Zero occupational accidents | 3 |
| | Occupational accident 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 accident 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% |

• For GV 21, Phase IV, which started beginning with the fiscal year ended March 2018, we are working 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

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|------|------|------|------|-------------|
| Frequency rate of occupational accidents at SCREEN Holdings and business operating / functional support companies | 0.21 | 0.22 | 0.00 | 0.19 | 0.00 |
| Average frequency rate of occupational accidents among manufacturers | 0.94 | 1.06 | 1.06 | 1.15 | 1.02 |
| Average frequency rate of occupational accidents among manufacturers of electrical machinery and equipment | 0.41 | 0.41 | 0.54 | 0.51 | 0.45 |

Notes: 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.

Severity rate of occupational accidents

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|------|------|------|------|-------------|
| Severity rate of occupational accidents at SCREEN Holdings and business operating / functional support companies | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 |
| Average severity rate of occupational accidents among manufacturers | 0.10 | 0.09 | 0.06 | 0.07 | 0.08 |
| Average severity rate of occupational accidents among manufacturers of electrical machinery and equipment | 0.01 | 0.01 | 0.03 | 0.05 | 0.02 |

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

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

(Person)

| | Education for new employees | Follow-up education for new employees | Management education | Foreman education | Risk assessor education |
|-------------|-----------------------------|---------------------------------------|----------------------|-------------------|-------------------------|
| 2015 | 65 | 68 | 33 | 25 | 35 |
| 2016 | 89 | 55 | 42 | 7 | 65 |
| 2017 | 76 | 73 | 37 | 31 | 61 |
| 2018 | 82 | 82 | 38 | 31 | 88 |

EHS training system

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

Code of Conduct training/CSR activities

CSR charter training (SCREEN Group in Japan)

(%)

| | 2017 | 2018 |
|-----------------------------|------|-------------|
| E-learning completion rate | 90.5 | 86.5 |
| CSR Talk participation rate | — | 81.8 |

CSR activities

| | |
|---------------------------------------|--|
| Environmental preservation | <ul style="list-style-type: none"> • Signed agreement on preserving forest uses as part of CSR activities in the area of environmental preservation. • Participating in the Miyako Creatures and Cultural Collaboration Renewal 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). |
| 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, an high school robotics competition in the US. • Presented lectures at universities on Practical Exercises for Corporate CSR and engaged in dialog with students. • Engineers from the SCREEN Group made presentations at the Future Forum for High School 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. • We have worked with primary schools in the vicinity of our Head Office in doing educational field trips. • 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. • We conducted a tour for students of the Columbia Business School. |
| Sports/Culture Assistance & Promotion | <ul style="list-style-type: none"> • We cooperated in creating replicas of katazome (stencil dyeing) artwork displayed at the commemorative exhibition for the APEC Summit held in Vietnam in October 2017. • 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. • We co-sponsored the Japan Concert Tour of the Goettingen Boy's Choir of Germany. • Supporting the Kyoto Sanga FC football club team as an official stadium sponsor since 2005. • Sponsor of the National Wheelchair Ekiden Race competition since 2014. • Sponsor of the Kyoto Ladies Open since 2014. • Supporter of Kyoto City Zoo since 2016 as a sponsor to help offset feeding costs. • Sponsor of the renovation project for Lake Biwa Museum since 2016. |
| 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 around 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 as an activity commemorating its founding. • 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 120,000 meals. |

Awards and certifications (related to CSR)

Awards and Certifications

| | Recipient | Award giving organization | Content of award or recognition | Result |
|---------------|---|--|--|-----------|
| May 2017 | Yasu Site | Moriyama Yasu Safe Driving Managers Association Moriyama Police | No-accident, no-traffic violation campaign | Awarded |
| May 2017 | Taga Site | Shiga Labour Standards Association | Accident-free Record Certification, Class 3 | Certified |
| June 2017 | SCREEN Semiconductor Solutions | Sony Semiconductor Manufacturing Co., Ltd. | Best Partner Award | Awarded |
| June 2017 | Yasu Site | Shiga Labour Standards Association | Accident-free Record Certification, Class 2 | Certified |
| June 2017 | Yasu Site | Moriyama Yasu Safe Driving Managers Association | No-accident, no-traffic violation campaign | Awarded |
| June 2017 | SCREEN Holdings | TABLE FOR TWO International (NPO) | Silver Supporter certification | Certified |
| June 2017 | SCREEN Holdings | Kyoto Prefectural Board of Education | Certificate of Appreciation for career experience activity | Awarded |
| July 2017 | Hikone Site | Chief of Hikone Police Director of Japan Safe Driving Center | Gold Award for Excellent Safe Driving Office | Awarded |
| July 2017 | Yasu Site | Chief of Moriyama Police Director of Japan Safe Driving Center | Gold Award for Excellent Safe Driving Office | Awarded |
| November 2017 | Yasu Site | Moriyama/Yasu Traffic Safety Measures Liaison Council | Moriyama/Yasu Traffic Safety Commendation Honorable Mention | Awarded |
| November 2017 | Sites in head office area | Kyoto Labour Bureau | 2017 Kyoto "Three Months with Zero Accidents" Campaign (Achieved) | Awarded |
| December 2017 | SCREEN Holdings | Kyoto City | Miyako Creatures and Cultural Collaboration Renewal Project | Certified |
| February 2018 | Hikone Site | Shiga Prefecture Traffic Safety 'Zero' Accident Campaign Executive Committee | Fiscal 2017 Shiga Prefecture road safety 'zero' accident campaign by job type | Awarded |
| February 2018 | SCREEN Holdings and business operating companies / functional support companies | Ministry of Economy, Trade and Industry | Company of Excellence for Health-oriented Management 2018 (White 500) | Certified |
| March 2018 | Hikone Site | Hikone/Inugami Region Safe Driving Managers Association | Fiscal 2017 Site-specific Movement to Eliminate Traffic Accidents and Violations | Awarded |
| March 2018 | Rakusai Site | Kyoto City Fushimi Fire Department | 2017 Annual Citizens' Fire Prevention Award | Awarded |
| March 2018 | Nishikyogoku Site | Kyoto City Ukyō Fire Department | 2018 "Fire Prevention Day" Citizens' Fire Prevention Award | Awarded |

Environmental Report

Environmental management

ISO/OHSAS certification status (SCREEN Group in Japan)

As of March 31, 2018

| | | 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 Manufacturing Support Solutions Co., Ltd. | | Acquired | Acquired | Acquired | |
| | SCREEN Business Support Solutions Co., Ltd. | | Acquired | Acquired | Acquired | Acquired |
| | SCREEN Advanced System Solutions Co., Ltd. | | Acquired | Acquired | Acquired | |
| | SCREEN IP Solutions Co., Ltd. | | Acquired | Acquired | Acquired | |

| | | ISO9001 | ISO14001 | OHSAS18001 | ISO50001 | ISO/IEC27001 |
|---------------|--|----------|----------|------------|----------|--------------|
| Manufacturing | Tech In Tech Co., Ltd. | Acquired | Acquired | Acquired | | |
| | FASSE Co., Ltd. | Acquired | Acquired | Acquired | | |
| | Quartz Lead Co., Ltd. | Acquired | Acquired | Acquired | | |
| | SCREEN Kumamoto Co., Ltd. | | | | | |
| Services | SEBACS Co., Ltd. | Acquired | Acquired | Acquired | | |
| | MT Service Japan East Co., Ltd. | Acquired | Acquired | Acquired | | Acquired |
| | MT Service Japan West Co., Ltd. | Acquired | Acquired | Acquired | | Acquired |
| | FEBACS Co., Ltd. | Acquired | Acquired | Acquired | | |
| | MEBACS Co., Ltd. | Acquired | Acquired | Acquired | | |
| Others | Scientific and Semiconductor Manufacturing Equipment Recycling Co., Ltd. | | Acquired | Acquired | | |
| | Media Technology Japan Co., Ltd. | | Acquired | Acquired | | |
| | S. Ten Nines Kyoto Co., Ltd. | | Acquired | Acquired | | Acquired |
| | TRANSUP Japan Co., Ltd. | | Acquired | Acquired | | |
| | SCREEN System Service Co., Ltd. | | Acquired | Acquired | | Acquired |
| | SCREEN Creative Communications Co., Ltd. | Acquired | Acquired | Acquired | | |
| | SCREEN Career Service Co., Ltd. | | Acquired | Acquired | | |
| | SCREEN Business Expert Co., Ltd. | | Acquired | Acquired | Acquired | |
| | EMD Corporation | | Acquired | Acquired | | |
| | Alpha MED Scientific Inc. | | | | | |
| | CREEN Laminattech Co., Ltd. | | | | | |

ISO/OHSAS certification status (overseas)

As of March 31, 2018

| | | ISO9001 | ISO14001 | OHSAS18001 |
|---------------|--|----------|----------|------------|
| Manufacturing | SCREEN GP Hangzhou Co., Ltd. | Acquired | Acquired | |
| | Inca Digital Printers LTD. | Acquired | | Acquired |
| | Laser Systems & Solutions of Europe SASU | Acquired | | |
| Others | SCREEN HD Korea Co., Ltd. | Acquired | | |

ISO certification acquisition rates

| | |
|--|------|
| Acquisition rate of ISO9001 standard certification of business operating companies, manufacturing and service companies in Japan | 86% |
| Acquisition rate of ISO9001 standard certification of overseas manufacturing companies | 75% |
| Acquisition rate of ISO14001 standard certification of main sites and group companies in Japan | 90% |
| Acquisition rate of ISO14001 standard certification of overseas manufacturing sites | 25% |
| Acquisition rate of ISO50001 standard certification of manufacturing sites in Japan | 100% |
| Acquisition rate of OHSAS18001 standard certification of main sites and group companies in Japan | 90% |

Legal compliance and reported complaints (SCREEN Group in Japan)

| 2014 | | | |
|--|---|---|----------|
| Hikone Site | Sewage Act | Measurements are done and recorded, but not sufficient to cover all items stipulated by the law | One case |
| Media Technology Japan | Road Traffic Act | Parking violation | One case |
| 2015 | | | |
| MEBACS | Waste Management and Public Cleansing Act | Used a waste-disposal company without concluding a subcontracting agreement | 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. | | | |

Environmental accounting

(SCREEN Group in Japan)

Environmental protection costs

(Millions of yen)

| Category | Protection costs | | | | Amount invested | | | | |
|--|--|-------|-------|-------|-----------------|------|------|------|----|
| | 2015 | 2016 | 2017 | 2018 | 2015 | 2016 | 2017 | 2018 | |
| 1. Cost within business area | 1. Pollution prevention: Wastewater treatment facilities, air treatment facilities | 261 | 155 | 196 | 218 | 59 | 22 | 24 | 41 |
| | 2. Environmental preservation: Inverters, facilities for preventing global warming | 34 | 43 | 60 | 25 | 26 | 179 | 59 | 14 |
| | 3. Resource circulation: Appropriate waste disposal | 60 | 83 | 66 | 71 | 0 | 0 | 0 | 10 |
| 2. Upstream/downstream costs | Recycled product business | 918 | 702 | 444 | 742 | 0 | 0 | 0 | 0 |
| 3. Administration costs | Analysis and measurement, environmental management education | 306 | 172 | 147 | 179 | 0 | 53 | 32 | 0 |
| 4. R&D costs | Development of environmentally friendly products | 1,397 | 1,517 | 1,779 | 2,084 | 0 | 0 | 0 | 0 |
| 5. Social initiative costs | Publishing report, environmental beautification initiatives | 5 | 12 | 19 | 16 | 0 | 5 | 19 | 11 |
| 6. Costs associated with resolving environmental damages | | 34 | 17 | 0 | 20 | 0 | 0 | 0 | 0 |
| Total | | 3,015 | 2,701 | 2,739 | 3,356 | 84 | 259 | 134 | 77 |

Environmental preservation effects

(Metric tons)

(Millions of yen)

| Category | Amount | | | | Cost | | | |
|--|----------------------|---------------------|-----------------------|---------------------|-------|-------|------|-------|
| | 2015 | 2016 | 2017 | 2018 | 2015 | 2016 | 2017 | 2018 |
| Effects of reduction efforts on volume of chemical substances used | 0 | 5 | -4 | -6 | 1 | 9 | -7 | -10 |
| Effects of reduction efforts on amount of energy used | 1,234CO ₂ | -847CO ₂ | -2,647CO ₂ | -755CO ₂ | 33 | 210 | -54 | -1 |
| Effects of reduction efforts on volume of waste emissions | -156 | 169 | -203 | -534 | -2 | 2 | -2 | -6 |
| Effects of resource conservation* | 49 | 25 | 18 | 11 | 1,252 | 1,098 | 636 | 1,132 |
| Total | | | | | 1,285 | 1,319 | 572 | 1,114 |

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

Greenhouse gases

CO₂ emissions by each business and manufacturing site

(t-CO₂)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|--------|--------|--------|--------|---------------|
| Business and manufacturing sites | | | | | |
| Hikone | 27,215 | 26,254 | 26,328 | 26,268 | 26,874 |
| Sites in head office area | 928 | 1,073 | 795 | 736 | 1,574 |
| Rakusai | 4,250 | 4,281 | 4,181 | 3,849 | 5,490 |
| Taga | 4,410 | 4,590 | 4,695 | 4,902 | 5,184 |
| Yasu | 6,464 | 6,668 | 6,302 | 6,458 | 6,449 |
| Kumiyama | 2,232 | 2,168 | 2,164 | 2,318 | 2,365 |
| Sites in Tokyo area | 142 | 332 | 156 | 160 | 296 |
| Others | 3,836 | 4,005 | 4,471 | 5,760 | 2,913 |
| SCREEN Group in Japan | | | | | |
| Scope 1 | 12,538 | 11,625 | 12,440 | 12,009 | 11,861 |
| Scope 2 | 36,941 | 36,620 | 36,652 | 38,441 | 39,284 |
| Scope 1 + Scope 2 | 49,479 | 48,245 | 49,092 | 50,451 | 51,145 |
| Scope 1 + Scope 2 emissions per unit weight of product shipment (t-CO ₂ /ton) | 9.19 | 8.47 | 6.76 | 6.71 | 6.72 |
| Overseas Group companies | | | | | |
| Scope 1 | 502 | 787 | 398 | 254 | 373 |
| Scope 2 | 3,829 | 3,594 | 3,033 | 2,652 | 3,258 |
| Scope 1 + Scope 2 | 4,331 | 4,381 | 3,431 | 2,906 | 3,630 |
| SCREEN Group | | | | | |
| Scope 1 | 12,309 | 11,835 | 11,436 | 12,263 | 12,234 |
| Scope 2 | 41,501 | 40,790 | 41,087 | 41,093 | 42,542 |
| Scope 1 + Scope 2 | 53,810 | 52,625 | 52,523 | 53,357 | 54,776 |
| Scope 1 + Scope 2 emissions per sales unit (t-CO ₂ /ton) | 22.8 | 22.0 | 20.2 | 17.8 | 16.1 |

• For the fiscal year ended March 31, 2018, CO₂ emissions for the Group as a whole were 54,776 t-CO₂, and its emissions per sales unit were 16.1 t-CO₂/JPY100M, a 9% 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: 11,861 t -CO₂, Scope 2: 39,284 t-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 Nishikyogoku 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 Monzen-nakacho 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.

Amount of energy used

(Thousands of gigajoules)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|------|-------|------|-------|--------------|
| SCREEN Group in Japan | | | | | |
| Scope 1: Direct energy (town gas/LPG/kerosene) | 213 | 221 | 211 | 207 | 205 |
| Scope 2: Indirect energy (electricity) | 692 | 723 | 703 | 752 | 765 |
| Energy usage (Scope 1 + 2) | 905 | 944 | 914 | 959 | 969 |
| Overseas Group companies | | | | | |
| Scope 1: Direct energy (town gas/LPG/kerosene) | 6 | 9 | 7 | 5 | 7 |
| Scope 2: Indirect energy (electricity) | 64 | 65 | 64 | 64 | 73 |
| Energy usage (Scope 1 + 2) | 70 | 74 | 71 | 68 | 79 |
| SCREEN Group | | | | | |
| Scope 1: Direct energy (town gas/LPG/kerosene) | 219 | 230 | 218 | 211 | 211 |
| Scope 2: Indirect energy (electricity) | 756 | 788 | 767 | 815 | 837 |
| Energy usage (Scope 1 + 2) | 975 | 1,018 | 985 | 1,027 | 1,049 |

• For the fiscal year ended March 31, 2018, the Group's energy usage was 1,049,000 GJ, an increase of approximately 2% over the previous year.

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

Reduction measures targeting CO₂ emissions: Major specific initiatives

| | Measure | Site | Reduction | |
|--|---|---------------------------------|---------------------------------|-------------------------------|
| | | | CO ₂ reduction | Cost-cutting |
| 2015 | Installation of photovoltaic panels | Hikone Site | CO ₂ reduction | 175 metric tons |
| | | | Cost-cutting | ¥5,145,000 |
| 2016 | Steam boiler renewal | Rakusai | CO ₂ reduction | 3.8 metric tons/year |
| | | | Cost-cutting | ¥139,000 |
| | Production cooling water flow control | Rakusai | CO ₂ reduction | 4.4 metric tons/year |
| | | | Cost-cutting | ¥126,000 |
| | Communications equipment office: Replacement of air conditioners | Head Office | CO ₂ reduction | 1.3 metric tons/year |
| | | | Cost-cutting | ¥41,000 |
| | Server system transformer integration | Head Office | CO ₂ reduction | 3.0 metric tons/year |
| | | | Cost-cutting | ¥99,000 |
| | Replacement of halogen lamps with LEDs | Head Office | CO ₂ reduction | 0.2 metric tons/year |
| | | | Cost-cutting | ¥8,000 |
| | Changes to clean room climate control settings, shutting off boilers at night in winter | Yasu | CO ₂ reduction | 465.4 metric tons/year |
| | | | Cost-cutting | ¥8,677,000 |
| | Site relocation (1157.81m ² → 976.25m ²), effect for August–March | MT Service Japan West Co., Ltd. | CO ₂ reduction | 5.2 metric tons/year |
| | | | Cost-cutting | ¥168,000 |
| Visualization of electricity usage (adoption of demand monitoring systems) | FASSE Co., Ltd. | CO ₂ reduction | 69.5 metric tons/year | |
| | | Cost-cutting | ¥1,158,000 | |
| 2017 | Replacement of air conditioners Kumiyama CO ₂ reduction | 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 | 8.9 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 | CO₂ reduction | 576.1 metric tons/year |
| | | | Cost-cutting | ¥18,290,000 |
| | Air conditioner replacement and system overhaul | Rakusai | CO₂ reduction | 22.7 metric tons/year |
| | | | Cost-cutting | ¥777,000 |
| | Air conditioner air volume control modification | Yasu | CO₂ reduction | 5.4 metric tons/year |
| | | | Cost-cutting | ¥138,000 |
| | Office air conditioner replacement | Yasu | CO₂ reduction | 7.7 metric tons/year |
| | | | Cost-cutting | ¥192,000 |
| | Discharge pump replacement | Hikone | CO₂ reduction | 1.2 metric tons/year |
| | | | Cost-cutting | ¥24,000 |

• In the fiscal year ended March 2018, we implemented measures at the Rakusai Site to reduce CO₂ emissions by approximately 600 t-CO₂ per year, equivalent to about a 1% 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 by mode of transportation

(t-CO₂)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|-----------|------|------|------|------|------|
| Vehicles | 655 | 704 | 770 | 816 | 819 |
| Ships | 14 | 2 | 0.3 | 11.8 | 3.2 |
| Railroads | 1 | 1 | 0 | 0 | 0 |

Reduction in CO₂ emissions resulting from modal shift in product transportation

| | Number of shipments | | | | | CO ₂ reductions (t-CO ₂) | | | | |
|------------------|---------------------|------|------|------|------|---|------|------|------|------|
| | 2014 | 2015 | 2016 | 2017 | 2018 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Marine transport | 113 | 21 | 13 | 85 | 39 | 73 | 6 | 5 | 78.4 | 26.8 |
| Rail transport | 21 | 3 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 |

Number of trucks involved in transportation

| | 2015 | 2016 | 2017 | 2018 |
|--|-------|-------|-------|-------|
| Number of trucks involved in product transportation | 3,034 | 3,896 | 3,896 | 4,471 |
| Number of trucks used for coastal shipping (to Kyushu) | 21 | 13 | 86 | 39 |

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

| | Initiative | Result |
|-------------|---|--|
| 2015 | Reuse of cushioning materials at Hikone CRC Parts Center | Reuse of 222 kg of cushioning materials |
| | Promotion of ESPIE packaging using reinforced cardboard as packaging for the transportation of semiconductor and LCD fabrication equipment | Reduction of 186 tons in wooden materials used The rate of reduction in total use of wooden materials came to 12%* |
| | Reduction in wooden materials, owing to revision of packaging sizes | Reduction of 6 tons in wooden materials used |
| 2016 | Reuse of cushioning materials at Hikone CRC Parts Center | Reuse of 208 kg of cushioning materials |
| | Promotion of ESPIE packaging using reinforced cardboard as packaging for the transportation of semiconductor and LCD fabrication equipment | Reduction of 221 tons in wooden materials used The rate of reduction in total use of wooden materials came to 9.8%* |
| | Reduction in wooden materials, owing to revision of packaging sizes | Reduction of 19.5 tons in wooden materials used |
| 2017 | Reuse of cushioning materials at parts centers | Reuse of 927 kg of cushioning materials |
| | Promotion of ESPIE packaging using reinforced cardboard as packaging for the transportation of semiconductor and LCD fabrication equipment | Reduction of 356 tons in wooden materials used The rate of reduction in total use of wooden materials came to 1.1%* |
| | Reduction in wooden materials, owing to revision of packaging sizes | Reduction of 25.75 tons in wooden materials used |
| 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 |

* 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

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

(t)

| Substance name | Cabinet order number | Usage | | | | |
|---------------------------------|----------------------|-------|------|------|------|-------------|
| | | 2014 | 2015 | 2016 | 2017 | 2018 |
| Ferric chloride | 71 | 46.0 | 46.2 | 40.8 | 44.2 | 49.3 |
| Hydrogen fluoride and its salts | 374 | 5.6 | 5.9 | 6.5 | 7.3 | 8.2 |

• "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 | | |
| | 2016 | 2017 | 2018 | 2016 | 2017 | 2018 | 2016 | 2017 | 2018 |
| Ferric chloride | 0 | 0 | 0 | 0 | 0 | 0 | 40.8 | 44.2 | 49.3 |
| Hydrogen fluoride and its salts | 0 | 0 | 0 | 0 | 0 | 0 | 6.5 | 7.3 | 8.2 |

• "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.)

PCB processing (SCREEN Group in Japan)

(Number of units owned)

| Type | 2014 | 2015 | 2016 | 2017 | 2018 |
|----------------------------|------|-------------------|------|------|------------|
| High-voltage capacitors | 0 | 0 | 0 | 0 | 0 |
| Low-voltage capacitors | 0 | 0 | 0 | 0 | 0 |
| Fluorescent light ballasts | 178 | 179 ^{*2} | 179 | 179 | 179 |
| Transformers | 4 | 0 | 0 | 0 | 0 |
| Reactors | 5 | 0 | 0 | 0 | 0 |
| Capacitors ^{*1} | 6 | 0 | 0 | 0 | 0 |

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

*1 Devices containing low-concentrated PCB.

*2 Found one additional unit containing PCBs.

Amount of substances used and in circulation

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

(t)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------------------------|--------|--------|--------|--------|---------------|
| Total amount of substances used | 12,176 | 12,033 | 13,544 | 14,250 | 13,887 |
| Chemical substances | 53 | 53 | 48 | 52 | 58 |

Waste/recycling

Breakdown of waste emissions (SCREEN Group in Japan)

(t)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------------------------------|-------|-------|-------|-------|-------|
| Total volume of waste emissions | 1,768 | 1,924 | 1,755 | 1,961 | 2,495 |
| Volume of recycled waste | 1,593 | 1,854 | 1,670 | 1,891 | 2,380 |
| Recycling rate (%) | 90.1% | 96.4% | 95.2% | 96.4% | 95.4 |
| Volume of waste for final disposal | 175 | 70 | 85 | 71 | 115 |

Total volume of waste emissions by business and manufacturing site

(t)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|-------|-------|-------|-------|-------|
| SCREEN Group in Japan | | | | | |
| Business and manufacturing site | | | | | |
| Hikone | 884 | 1,030 | 910 | 824 | 1,312 |
| Sites in head office area | 25 | 30 | 21 | 25 | 42 |
| Rakusai | 24 | 59 | 69 | 53 | 92 |
| Taga | 139 | 114 | 118 | 112 | 225 |
| Yasu | 141 | 201 | 221 | 148 | 170 |
| Kumiyama | 250 | 209 | 155 | 190 | 328 |
| Sites in Tokyo area | 22 | 18 | 36 | 16 | 20 |
| Others | 283 | 263 | 226 | 593 | 307 |
| Total of business and manufacturing sites | 1,768 | 1,924 | 1,755 | 1,964 | 2,495 |
| Overseas Group companies | 125 | 124 | 93 | 100 | 201 |
| SCREEN Group | 1,893 | 2,048 | 1,848 | 2,064 | 2,696 |

* 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)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|----------------------------|-------|-------|-------|-------|--------|
| Resources of value | 631.4 | 879.9 | 732.6 | 817.6 | 1071.9 |
| Sludge waste | 396.9 | 376.5 | 371.4 | 394.2 | 525.7 |
| General-purpose paper | 21.2 | 151.6 | 24.8 | 39.7 | 27.3 |
| Waste plastic | 182.4 | 208.6 | 131.9 | 144.5 | 186.4 |
| Waste acid (special) | 113.3 | 110.5 | 100.5 | 112.4 | 117.5 |
| Cardboard | 26.7 | 176.4 | 26.9 | 40.2 | 50.2 |
| Cloth, wood scrap | 84.2 | 110.6 | 107.3 | 134.5 | 124.2 |
| Waste alkali | 16.9 | 14.8 | 13.5 | 14.0 | 15.7 |
| Scrap metal | 96.5 | 347.8 | 19.8 | 29.7 | 30.2 |
| Paper | 46.6 | 177.0 | 43.8 | 44.1 | 75.4 |
| Waste oil | 30.3 | 20.8 | 21.4 | 24.6 | 59.1 |
| Waste oil (special) | 13.2 | 39.0 | 37.0 | 46.2 | 49.9 |
| Ceramics, glass | 14.0 | 17.5 | 10.8 | 28.9 | 19.1 |
| Waste alkali (special) | 28.2 | 19.1 | 20.0 | 27.4 | 27.6 |
| Electrical wiring, PCBs | 0.0 | 11.1 | 0.7 | 9.6 | 1.2 |
| Burnable waste | 7.3 | 58.9 | 7.0 | 8.6 | 9.0 |
| Waste film | 21.4 | 41.0 | 19.1 | 23.6 | 26.3 |
| Batteries | 1.0 | 4.8 | 0.8 | 0.9 | 0.8 |
| Waste acid | 1.7 | 0.7 | 1.7 | 12.3 | 63.8 |
| Waste fluorescent lighting | 2.3 | 0.8 | 3.6 | 2.2 | 3.1 |
| Others | 36.2 | 33.3 | 10.6 | 6.2 | 10.7 |

Breakdown of resources of value indicated above

(t)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|-----------------------|-------|-------|-------|-------|-------|
| Cardboard | 174.9 | 154.4 | 152.7 | 190.4 | 198.5 |
| Metals | 175.2 | 302.8 | 246.5 | 262.8 | 499.1 |
| General-purpose paper | 187.7 | 131.5 | 123.0 | 167.1 | 251.8 |
| Polyvinyl chloride | 10.8 | 74.4 | 69.2 | 72.5 | 32.1 |
| Film | 0.2 | 23.3 | 0.0 | 0.0 | 0.0 |
| Glass (wafers) | 1.3 | 1.4 | 0.8 | 2.1 | 0.9 |
| Magazines, catalogs | 9.2 | 124.6 | 130.3 | 117.3 | 76.2 |
| Others | 72.1 | 67.5 | 10.1 | 5.5 | 13.4 |

Recycling rates by business and manufacturing site

(%)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|-------|-------|-------|-------|--------------|
| Business and manufacturing sites | | | | | |
| Hikone Site | 97.3 | 99.0 | 96.0 | 99.0 | 98.5 |
| Sites in head office area | 99.3 | 99.7 | 89.6 | 97.7 | 95.2 |
| Rakusai Site | 80.5 | 88.2 | 81.6 | 91.0 | 99.0 |
| Taga Plant | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Yasu Plant | 57.5 | 92.0 | 95.2 | 95.2 | 89.3 |
| Kumiyama Plant | 98.6 | 100.0 | 100.0 | 100.0 | 100.0 |
| Sites in Tokyo area | 93.3 | 100.0 | 99.6 | 99.7 | 98.2 |
| Group companies in Japan | 90.1 | 96.4 | 95.2 | 96.4 | 95.4 |

Green purchasing ratio
Green purchasing ratio (SCREEN Group in Japan)

(%)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------------------|------|------|------|------|-------------|
| Green purchasing ratio | 93.6 | 98.8 | 98.3 | 99.1 | 97.7 |

Water
Water used

 (Thousands of m³)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------------------------|-------|-------|-------|-------|--------------|
| SCREEN Group in Japan | | | | | |
| Service water | 227 | 262 | 281 | 308 | 316 |
| Industrial water | 1,787 | 1,560 | 1,704 | 1,696 | 1,697 |
| Total | 2,014 | 1,821 | 1,985 | 2,005 | 2,013 |
| Overseas Group companies | | | | | |
| Service water | 20 | 19 | 36 | 29 | 50 |
| SCREEN Group | 2,034 | 1,840 | 2,021 | 2,034 | 2,063 |

Total volume of water emissions (SCREEN Group in Japan)

 (Thousands of m³)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------------------------|-------|-------|-------|-------|--------------|
| Public water areas, sewerage | 2,014 | 1,821 | 1,959 | 1,978 | 1,971 |

BOD and COD emissions

(t)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|-----|------|------|------|------|------------|
| BOD | 0.9 | 0.8 | 4.9 | 3.8 | 3.5 |
| COD | 1.6 | 1.7 | 1.9 | 1.9 | 1.7 |

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)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------|------|------|------|------|------|
| SOx emissions | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| NOx emissions | 8.8 | 8.6 | 2.3 | 2.6 | 3.4 |

Reducing environmental impacts of products

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

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|-------------------------------|-------------|------|------|------|------|
| Number of green products | 104 | 116 | 119 | 133 | 136 |
| Percentage of total sales (%) | Target | 70 | 75 | 80 | 90 |
| | Performance | 89 | 92 | 92 | 94 |

Note: Green products (environmentally friendly products): 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: <http://www.screen.co.jp/csr/environment/products.html>

Green Value 21

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

| Key Measures | Description of Activities | Targets for fiscal year ending March 2020 | Results for fiscal year ended March 2018 | |
|------------------------------|---|---|--|--|
| Environmental management | Environmental conservation | Reduce CO ₂ emissions | Reduce unit rate by 6% or more* ¹ (emission intensity = 8.64) | 27% reduction (emission intensity = 6.72) |
| | | Reduce energy consumption (in crude oil equivalents) | Reduce unit rate by 6% or more* ¹ (emission intensity = 3.92) | 24% reduction (emission intensity = 3.16) |
| | | Reduce waste* ² | Reduce unit rate by 6% or more* ¹ (emission intensity = 199) | 8% reduction (emission intensity = 193) |
| | | Promote biodiversity conservation | Implement action plans Note: Including measures to counter water-related risks | Certified by Miyako Creatures and Cultural Collaboration Renewal Project Signed agreement on preserving forest uses, and launched environmental conservation activities |
| Product EHS | Contribute to controlling CO ₂ emissions by products | Reduce unit rate by 6% or more* ¹ (emission intensity = 765) | 16% reduction (emission intensity = 684) | |
| | 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 | 95% | |
| | Train product safety experts | Certification rate of at least 2% * ⁴ Note: Internally certified Product Safety Experts | Introduced Product Safety Expert Certification system | |
| | 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 | Upgraded ProChemist to support chemSHERPA as IT system for contained chemical substances investigation ; Started operation of HazardManager for chemicals inventory control | |
| Disaster prevention & safety | Occupational safety and health | Zero occupational accidents | Zero occupational accidents resulting in four or more lost work days | One (1) occurrence |
| | | Reduce occupational accident points | Group as a whole: fewer than 250 points Note: Internal point system for occupational accidents | 350 points |
| | Disaster prevention BCM | Achieve improvements by conducting drills | Conduct practice drills at least once a year | Conducted practice drills for crisis management and public relations by the disaster response office under the Head Office |
| | | Firmly establish system for operating by the disaster response office | Implement action plans Note: Including operation of Bousaiz* ⁵ | Conducted practice drills to confirm that employees are safe when an earthquake strikes (4 times), and put Bousaiz into operation for drills |
| Health management | Health monitoring | Reduce sick leave | Reduce percentage of sick leave days taken to less than previous year | 0.590% (previous year 0.647%) |
| | | Promote elimination of passive exposure to tobacco smoke in the workplace | Implement action plans | Ascertained current situation and analyze; set three-year target, formulated goals |
| Integrated EHS Management | Obtain certification for revised versions of management systems | Implement action plans | Prepared for transition from OHSMS certification | |
| | Develop human resources to promote EHS | Implement action plans | Introduced EHS Professional Certification System | |
| | Develop EHS information infrastructure | Implement action plans | Introduced EHS information system | |

Notes:

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

*2 Waste = waste discharged – valuable resources recovered

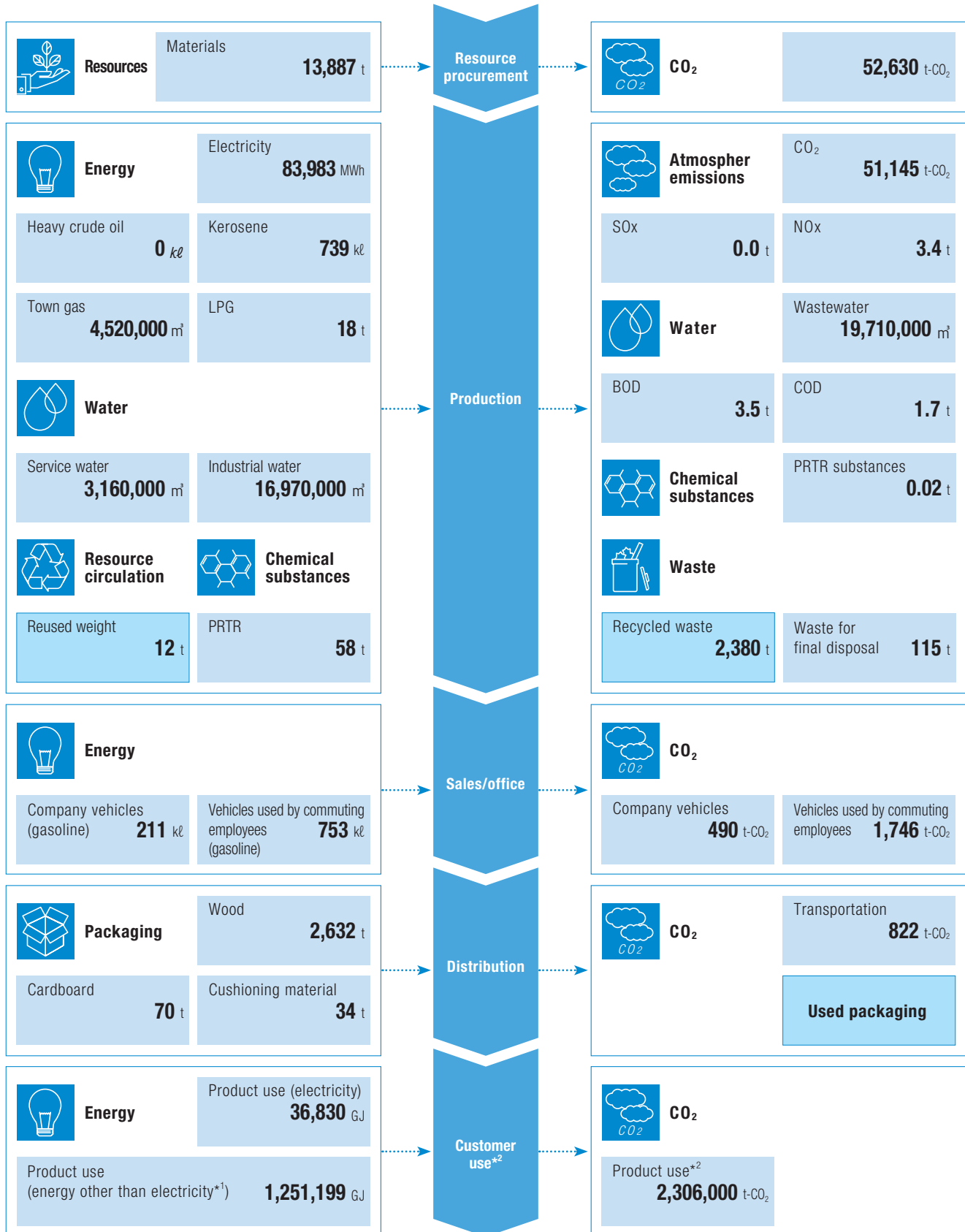
*3 Compared to the fiscal year ended March 2014, per sales unit

*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, 2018. 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 2017.

Technical foundation

Patents

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

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------------|-------|-------|-------|-------|--------------|
| Japan | 1,991 | 2,127 | 2,098 | 2,115 | 2,196 |
| North America | 545 | 676 | 716 | 771 | 819 |
| Europe | 253 | 242 | 224 | 232 | 258 |
| Asia and Oceania | 920 | 1,115 | 1,184 | 1,300 | 1,489 |
| Total | 3,709 | 4,160 | 4,222 | 4,418 | 4,762 |

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

(%)

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|----------|------|------|------|------|-------------|
| Japan | 80 | 79 | 79 | 91 | 88 |
| Overseas | 90 | 90 | 85 | 88 | 88 |
| Total | 83 | 86 | 82 | 90 | 88 |