

Environmental Performance Data

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Greenhouse gas emissions(Scope1 and Scope2)

(t-CO₂)

| | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 |
|----------------------|----------|----------|----------|----------|----------|----------|
| Scope1 | 6,043.2 | 5,729.3 | 5,483.1 | 5,619.2 | 5,670.1 | 5,268.0 |
| Scope2 | 32,901.2 | 32,494.4 | 33,084.5 | 31,944.0 | 30,926.9 | 30,528.3 |
| Total | 38,944.3 | 38,223.7 | 38,567.6 | 37,563.2 | 36,597.0 | 35,796.3 |
| Casio Group coverage | - | - | - | - | 99.5% | 99.5% |

※1 There are no emissions of greenhouse gases other than CO₂.

(Breakdown by type of site)

(t-CO₂)

| | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 |
|--------------------------------|----------|----------|----------|----------|----------|----------|
| Production sites in Japan | 8,431.8 | 8,472.4 | 8,984.6 | 7,941.0 | 6,953.6 | 6,633.7 |
| Office sites in Japan | 10,150.5 | 9,613.6 | 8,854.6 | 8,951.1 | 9,108.9 | 8,602.6 |
| Production sites outside Japan | 14,220.3 | 14,031.7 | 14,461.8 | 14,199.9 | 14,178.3 | 14,466.6 |
| Office sites outside Japan | 6,141.6 | 6,106.0 | 6,266.7 | 6,471.2 | 6,356.3 | 6,093.4 |

Energy usage

Figures in parentheses () are MWh. Other figures are GJ.

| | | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 |
|----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Fuel | | 96,935 (26,926) | 90,796 (25,221) | 86,724 (24,090) | 88,939 (24,705) | 90,124 (25,034) | 83,424 (23,173) |
| Electricity | Non-renewable energy | 560,474 (56,733) | 561,198 (56,827) | 573,755 (58,102) | 556,332 (56,318) | 535,700 (54,204) | 514,072 (52,022) |
| | Renewable energy | - | - | - | - | - | 15,137 (1,518) |
| Total | | 657,408 (83,659) | 651,994 (82,048) | 660,479 (82,192) | 645,272 (81,023) | 625,824 (79,238) | 612,632 (76,714) |
| Casio Group coverage | | - | - | - | - | 99.5% | 99.5% |

Waste related data

Generation of waste, etc.

(t)

| | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 |
|----------------------|---------|---------|---------|---------|---------|---------|
| Total discharge | 2,373.5 | 2,674.3 | 2,835.1 | 3,570.8 | 4,652.7 | 4,244.3 |
| Reduction | 211.0 | 321.0 | 461.2 | 182.8 | 194.0 | 715.9 |
| Landfill disposal | 265.5 | 207.2 | 227.0 | 701.3 | 368.1 | 486.6 |
| Recycled | 1,897.0 | 2,146.1 | 2,146.9 | 2,686.6 | 4,090.6 | 3,041.8 |
| Recycling rate | 87.7% | 91.2% | 90.4% | 79.3% | 91.7% | 86.2% |
| Casio Group coverage | - | - | - | - | 90.4% | 90.2% |

Recycling rate = Recycled waste/(Recycled waste+ Landfill disposal)

(Emissions of waste, etc. by type of site)

(t)

| | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 |
|--------------------------------|--------|--------|--------|---------|---------|---------|
| Production sites in Japan | 582.9 | 634.4 | 827.3 | 761.6 | 694.6 | 625.8 |
| Office sites in Japan | 769.9 | 703.6 | 661.1 | 725.5 | 718.0 | 673.3 |
| Production sites outside Japan | 320.6 | 411.6 | 689.1 | 1,456.9 | 2,599.6 | 2,250.6 |
| Office sites outside Japan | 700.2 | 924.7 | 657.6 | 626.8 | 640.5 | 694.6 |

Water resources

(thousand m3)

| | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 |
|----------------------------|--------|--------|--------|--------|--------|--------|
| Tap water/industrial water | 520.8 | 530.1 | 547.0 | 518.1 | 500.1 | 412.4 |
| Groundwater | 87.9 | 7.3 | 5.6 | 5.8 | 5.9 | 5.5 |
| Total | 608.6 | 537.4 | 552.6 | 524.0 | 506.0 | 417.9 |
| Casio Group coverage | - | - | - | - | 83.6% | 84.6% |

(Breakdown by type of site)

(thousand m3)

| | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 |
|--------------------------------|--------|--------|--------|--------|--------|--------|
| Production sites in Japan | 44.9 | 52.9 | 60.9 | 55.1 | 41.5 | 37.3 |
| Office sites in Japan | 168.6 | 85.9 | 79.7 | 81.5 | 76.7 | 75.2 |
| Production sites outside Japan | 377.7 | 381.5 | 394.8 | 369.7 | 371.1 | 288.4 |
| Office sites outside Japan | 17.4 | 17.2 | 17.2 | 17.7 | 16.7 | 16.9 |

Usage of parts, materials, instruction manuals, packaging materials and recycle materials

(t)

| | | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 |
|------------------------------|-------------------|----------|----------|----------|----------|----------|----------|
| Usage of parts and materials | | 25,669.0 | 26,209.0 | 24,676.0 | 28,745.0 | 24,396.8 | 22,437.6 |
| | recycle materials | 1,239.0 | 877.0 | 439.0 | 244.0 | 238.6 | 220.0 |
| | recycle rate | 4.8% | 3.3% | 1.8% | 0.8% | 1.0% | 1.0% |
| Usage of instruction manuals | | 3,235.0 | 3,790.0 | 3,683.0 | 3,122.0 | 3,059.0 | 2,481.2 |
| | recycle materials | 77.0 | 221.0 | 88.0 | 149.0 | 156.1 | 116.7 |
| | recycle rate | 2.4% | 5.8% | 2.4% | 4.8% | 5.1% | 4.7% |
| Usage of packaging materials | | 12,308.0 | 12,148.0 | 11,720.0 | 11,821.0 | 11,301.0 | 10,481.9 |
| | recycle materials | 9,732.0 | 9,457.0 | 9,061.0 | 9,173.0 | 8,864.0 | 8,340.9 |
| | recycle rate | 79.1% | 77.8% | 77.3% | 77.6% | 78.4% | 79.6% |

Scope of Data

The scope of the environmental performance data for fiscal 2019 is shown below.

Period covered: April 1, 2018 – March 31, 2019

Sites covered: 72 Casio Group sites

However, sites for which it is difficult to monitor water usage and waste generation due, for example, to an office lease agreement, are not included in the scope of calculation.

Numerical data on environmental performance for each site is listed separately.

| | |
|--|--|
| Production sites in Japan (3 sites) | <ul style="list-style-type: none"> · Yamagata Casio Co., Ltd. · Yamagata Casio Co., Ltd. (Yamanashi) · Casio Electronic Manufacturing Co., Ltd. |
| Office sites in Japan (43 sites) | <ul style="list-style-type: none"> · Casio Computer Co., Ltd. (Headquarters) · Casio Computer Co., Ltd. (Hamura R&D Center) · Casio Computer Co., Ltd. (Hachioji R&D Center) · Casio Computer Co., Ltd. (32 sales sites) (Kudan, Osaka, Sendai, Saitama, Nagoya, Hiroshima, Fukuoka and other sites) · Casio Techno Co., Ltd. (Headquarters) · Casio Techno Co., Ltd. (Technical Center) · Casio Marketing Advance Co., Ltd. · Casio Business Service Co., Ltd. (Headquarters) · Casio Business Service Co., Ltd. (Kofu) · Casio Information Service Co., Ltd. · CXD Next Co., Ltd. · Hatsudai Estate Building · Replex Inc. <p>* Data for Casio Human Systems Co., Ltd., and Casio Communication Brains Co., Ltd. have been included in the data for the sites where they are located.</p> |
| Production sites outside Japan (4 sites) | <p>Asia (4 sites)</p> <ul style="list-style-type: none"> · Casio (Thailand) Co., Ltd. · Casio Electronic Technology (Zhongshan) Co., Ltd. · Casio Timepiece (Dongguan) Co., Ltd. · Casio Electronics (Shaoguan) Co., Ltd. |
| Office sites outside Japan (22 sites) | <p>Asia (9 sites)</p> <ul style="list-style-type: none"> · Casio Electronics (Shenzhen) Co., Ltd. · Casio Computer (Hong Kong) Ltd. · Casio (Guangzhou) Co., Ltd. · Casio India Co., Pvt. Ltd. · Casio (China) Co., Ltd. · Casio Taiwan Co., Ltd. · Casio Soft (Shanghai) Co., Ltd. · Casio Singapore Pte., Ltd. · Guangzhou Casio Techno Co., Ltd. <p>Europe (8 sites)</p> <ul style="list-style-type: none"> · Casio Europe GmbH · Casio Electronics Co., Ltd. |

- Casio France S.A.
- Casio Espana S.L.
- Casio Scandinavia AS
- Casio Benelux B.V.
- Casio Italia S.r.l.
- Limited Liability Company Casio

Middle East (1 site)

- Casio Middle East FZE

Americas (4 sites)

- Casio America, Inc.
- Casio Canada Ltd.
- Casio Mexico Marketing, S. de R. L. de C.V.
- Casio Brasil Comercio De Produtos Eletronicos Ltda.

Calculation Standards

1. Overall

- (1) Items with no input, usage, handling or discharge performance have been left blank.
- (2) Figures are rounded off to the second decimal point, in the specified units (figures shown as “0.0” are less than “0.05”).
- (3) When total Casio Group values for VOC inputs/emissions and PRTR are 1 ton or more, data is shown separately for the individual site.

2. Inputs

- (1) Energy input amount
 - All fossil fuels and power used in business activities are totaled for sites indicated in the Scope of Data.
 - Includes fuel usage by company vehicles, but does not include energy used for contracted logistics services, commuting, and business trips.
 - Crude oil equivalent is calculated in accordance with Japan’s Act on the Rational Use of Energy.
- (2) Water resource input amount
 - Usage amounts of tap water, industrial water and groundwater are combined.
 - Sites for which it is difficult to monitor water usage due, for example, to an office lease agreement, are not included in the scope of calculation.
- (3) Paper usage amount

Managed and tabulated based on the purchased amounts of paper used in printers, fax machines, and copy machines each year.

The weight of one sheet is determined for each paper size, and weights are calculated based on the amounts purchased.

(4) PRTR substance input amount

- Calculated for chemical substances subject to Japan's PRTR Act whose annual amount handled per substance is 0.05 tons or more at each site.

- Calculated for VOC inputs subject to a follow-up survey of achievements related to the four electrical and electronic industry associations' control of VOC emissions whose annual amount handled is 0.05 tons or more at each site.

3. Outputs

(1) CO₂ emissions

- Used factors listed in the GHG Protocol's calculation tool (GHG emissions from purchased electricity 4.8) to calculate CO₂ from electricity.

- Regarding CO₂ equivalent for fuel, CO₂ conversion coefficients were calculated using the emission coefficients and unit calorific values by fuel type based on Japan's Global Warming Act, and then applied to different fuel types and totaled.

(2) Wastewater

- Calculated from amounts at sites that measure wastewater amounts. Sites that do not measure wastewater amounts but can ascertain tap water use treat the amount of tap water used as their wastewater amount.

- At sites with special facilities that fall under the Water Pollution Prevention Act and/or the Sewer Act, water quality surveys are conducted based on applicable laws, and confirmation is made that emissions are below regulatory limits. Since fiscal 2014, the applicable facilities have not been operating.

- In the case of discharge into public sewer systems, figures are shown if voluntary measurements are taken.

(3) Air pollutants

- Calculated at sites that have smoke generating facilities based on the concentration measurements and gas emissions at each facility. Yamagata Casio and Hamura R&D Center are included in tabulation of results.

- Concentrations of dust emissions, NO_x, and SO_x, which must be managed by law, are measured at target sites, to confirm that they are below regulation levels.

- The following substances are not used at any Casio site: dichloromethane, trichlorethylene, tetrachlorethylene, chloroform, vinyl chloride monomer, 1,3-butadiene, benzene, acrylonitrile, 1,2-dichloroethane, formaldehyde, trinickel disulfide, nickel nitrate, and acetaldehyde.

(4) PRTR

- Release and transfer quantities are calculated for each chemical substance subject to Japan's PRTR Act whose annual usage is 0.05 tons or more at each site.

- Calculated for VOC outputs to air subject to a follow-up survey of achievements related to the four electrical and electronic industry associations' control of VOC emissions whose annual amount handled is 0.05 tons or more at each site.

(5) Waste

- Waste is tabulated as the total amount of industrial waste generated when product is transferred from a Casio site to the processor, general waste derived from sites, and the quantity of valuables.

- Sites for which it is difficult to monitor waste generation due, for example, to an office lease agreement, are not included in the scope of calculation.

(6) Base year figures

- For the evaluation of greenhouse gases and energy conservation, emissions and usage of divested businesses are excluded from data in and after the base year in accordance with the GHG Protocol.
- For sites that were included in the scope in and after the base year due to acquisition, etc., historical data on emissions and use is only added to historical data for fiscal years in and after the base year when it is available in accordance with the GHG Protocol, which is the international standard.

4. Scope 3 calculation methods

| | | |
|------------|---|---|
| Category 1 | Purchased goods and services | <p>Amount of activity: Amount of purchased consumables, raw materials, and packaging materials, salaries of temporary staff, purchased tap water, industrial water, and advertising expenses.</p> <p>Unit: Calculated by multiplying each item by the emissions unit of the purchased amount and adding together the total.</p> <p>Emission factor database for calculating organizational GHG emissions throughout the supply chain version 2.6 issued by Japan's Ministry of Environment and CFP COMMUNICATION PROGRAM DB version 1.01.</p> |
| Category 2 | Capital goods | <p>Amount of activity: Amount of capital investment by all consolidated subsidiaries.</p> <p>Unit: Calculated by multiplying the emissions unit corresponding to the amount of capital investment.</p> <p>Emission factor database for calculating organizational GHG emissions throughout the supply chain version 2.6 issued by Japan's Ministry of Environment.</p> |
| Category 3 | Fuel-and-energy-related activities (not included in Scope 1 or 2) | <p>Amount of activity: Amount of purchased electricity and fuels.</p> <p>Unit: Calculated by multiplying the emissions unit of each type and adding together the total.</p> <p>Emission factor database for calculating organizational GHG emissions throughout the supply chain version 2.6 issued by Japan's Ministry of Environment and CFP COMMUNICATION PROGRAM DB version 1.01.</p> |
| Category 4 | Upstream transportation and distribution | <p>Amount of activity: Amount of product distribution for which Casio Computer Co., Ltd. pays the burden of expense.</p> <p>Unit: Calculated by multiplying the weight and transportation distance by the emissions unit of each transportation type and adding together the total. (Trucks: Specific fuel consumption using the improved ton/kilo method. Trains, ships and airplanes: CO₂ emissions output level using the conventional ton/kilo method)</p> |
| Category 5 | Waste generated in operations | <p>Amount of activity: Emissions of each type of waste.</p> <p>Unit: Calculated by multiplying the emissions unit of each type and adding together the total.</p> <p>Emission factor database for calculating organizational GHG emissions throughout the supply chain version 2.6 issued by Japan's Ministry of Environment.</p> |

| | | |
|-------------|--|---|
| Category 6 | Business travel | <p>Amount of activity: Number of domestic and overseas employees.</p> <p>Unit: Emissions unit per employee.</p> <p>Emission factor database for calculating organizational GHG emissions throughout the supply chain version 2.6 issued by Japan's Ministry of Environment.</p> |
| Category 7 | Employee commuting | <p>Amount of activity: Transportation expenses paid to employees.</p> <p>Unit: Calculated by estimating the train/car ratio from employee commuting style, multiplied by the emissions unit of the amount of transportation expenses for each style and adding together the total.</p> <p>Emission factor database for calculating organizational GHG emissions throughout the supply chain version 2.6 issued by Japan's Ministry of Environment.</p> |
| Category 8 | Upstream leased assets | <p>Amount of activity: Domestic G-SHOCK stores, sales area for digital paintings and other and number of business days.</p> <p>Unit: Calculated by determining the total sales area, and multiplying the emissions unit of the sales area. The number of business days is calculated on a pro-rate basis.</p> <p>Emission factor database for calculating organizational GHG emissions throughout the supply chain version 2.6 issued by Japan's Ministry of Environment.</p> |
| Category 9 | Downstream transportation and distribution | <p>Transportation to retailers from the distribution hubs of regular sales companies is outside the scope of Casio's expense payment. Since this is difficult to ascertain and the CO₂ emissions are deemed to be fairly small compared to Category 4 upstream transportation and distribution, it is not included in calculations.</p> |
| Category 10 | Processing of sold products | <p>Although one of our group companies provides name printing and other services, emissions of CO₂ and other substances from this business activity is included in Scopes 1 and 2.</p> |
| Category 11 | Use of sold products | <p>Amount of activity: Electricity used by those products that produce electricity consumption, out of products sold by Casio Computer Co., Ltd. in that year.</p> <p>Unit: Use of products is calculated by multiplying the emissions unit of each product for the supported period (five years; seven years for timepieces). Regarding the use period, relevant industrial standards are followed. In cases when such an industrial standard does not exist, Casio defines the use period. Regarding electricity, CO₂ emissions were calculated by applying the GHG Protocol, which is the international standard. (Factors were used for Japan, Europe, Asia, the UK, and North America.) Regarding products that require battery replacement, CO₂ emissions related to manufacture of the battery are also included in the calculation. (The purchased cost for the manufacturer of each battery is used in the calculation.)</p> <p>Emission factor database for calculating organizational GHG emissions throughout the supply chain version 2.6 issued by Japan's Ministry of Environment.</p> |

| | | |
|-------------|--|---|
| Category 12 | End of life treatment of sold products | <p>Amount of activity: Emissions from the product itself and container packaging materials.</p> <p>Unit: Calculated by multiplying the emissions unit of each type and adding together the total.</p> <p>Emission factor database for calculating organizational GHG emissions throughout the supply chain version 2.6 issued by Japan's Ministry of Environment.</p> |
| Category 13 | Downstream leased assets | Due to the disposal of relevant buildings, it is not subject to calculation from fiscal 2016. |
| Category 14 | Franchises | The franchise formula is not used. |
| Category 15 | Investments | <p>Amount of activity: Emissions from equity method affiliates and companies which hold specific annual stocks and constructive stocks.</p> <p>Unit: Calculated by multiplying the emissions from investment destinations by the equity method ratio or the share holding ratio.</p> |