

CO<sub>2</sub> Emissions Reduction

**Reducing CO<sub>2</sub> emissions in all processes from procurement to distribution**

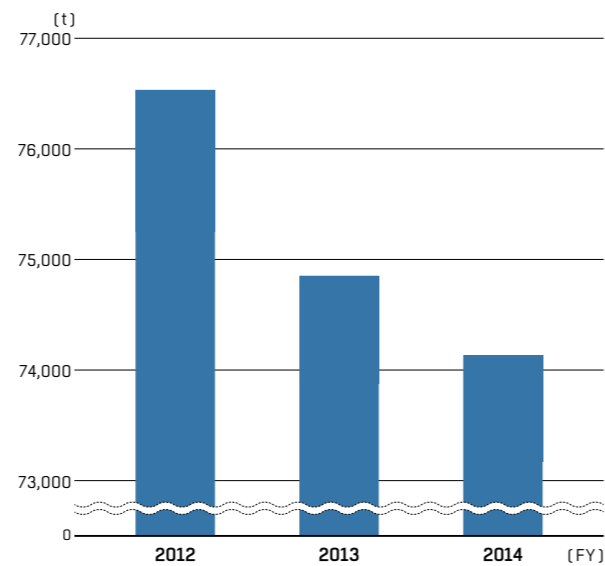
Casio strives to reduce CO<sub>2</sub> emissions in various processes from materials procurement and production to distribution, product usage, and disposal.

In the distribution process, Casio has eliminated and integrated distribution sites in Europe and Japan, shortening the distances that cargo must travel. For products being shipped from China to North America, direct routes to dealers have been implemented without going through the warehouses of Casio sales subsidiaries. Casio built a new warehouse in a city in southern India to cut transportation distances in that country, resulting in a CO<sub>2</sub> emissions reduction of 60% for distribution of those products. In Japan, the company has been shifting freight from trucks to rail, which has less environmental impact. Casio has also devised new package shapes and cushioning material, while revising the contents included with products, to make product packages smaller and lighter.

Casio calculates CO<sub>2</sub> emissions based on the international Corporate Value Chain (Scope 3\*) Standard, in order to reduce emissions throughout its supply chain.

\* Corporate Value Chain (Scope 3) Standard: Standard for calculating greenhouse gas emissions across the entire supply chain. It includes 15 categories such as product use/disposal, transport, employee travel/commuting, leased assets, and investments. Scope 1 covers the direct emissions generated by the company, such as fuel use, while Scope 2 covers indirect emissions, such as those related to power purchased by the company from an external provider.

Changes in CO<sub>2</sub> emissions from distribution



Recycling

**Proactive utilization of recycled resources**

As part of its efforts to help protect the global environment and effectively utilize resources, Casio proactively looks for ways to use recycled plastic from used food trays and other sources as a material for products.

For calculator products, Casio uses 100% recycled plastic for the body cases and battery covers. Recycled plastic is also used for parts of cash registers and electronic musical instruments. These are just a few examples of how Casio is pursuing environmentally friendly manufacturing.



Chemical Substance Evaluation

**Meeting internal standards to comply with laws and regulations**

New laws to regulate chemicals used in electrical and electronic products have been enacted in countries worldwide, while existing regulations have been getting stricter each year.

Casio compiles the requirements of applicable laws and regulations concerning chemical substance content in products and incorporates them into its Casio Green Procurement Standards. The materials procurement departments then apply these standards when purchasing parts and materials. The product development and design departments use a

database to check that all the parts and materials to be included in products comply with the standards. Even the manufacturing plants check the mass production parts and materials to ensure they comply with regulations on chemical substances.

Casio is actively developing environmentally friendly products. It has produced the world's first high-brightness projector that does not use a high-pressure mercury lamp. Today, all Casio projectors are completely free of mercury.



Thorough chemical inspection being carried out at the factory



Mercury-free projector

**Environmental Performance**

Casio has been making products smaller, slimmer, lighter, and more energy saving for years, so the concept of continually reducing environmental impact has become almost second nature. Casio applies all it has learned to environmental management in order to help realize a more sustainable global society.

Employee Voice

**Promoting recycling and reduced power consumption**

John Conway, Casio America, Inc.

In addition to carrying out a wide range of recycling activities, we are working to reduce general waste, as well as copy paper and power usage. We have reduced the amount of general waste from 86 tons to 34 tons in three years, while cutting copy paper usage from 16 tons to 10.3 tons over four years.

