Climate Change Action

In order to ensure that the next generation inherits this irreplaceable planet, Casio has established and is implementing Climate Change Action with medium- and long-term targets to be achieved by fiscal 2051.

Approach to setting medium- and long-term targets

With the establishment of these medium- and long-term targets, Casio intends to reduce its greenhouse gas emissions significantly. Moreover, the company is emphasizing its goal of becoming carbon neutral,*1 which means reducing Casio's net greenhouse gas emissions to zero. Accordingly, Casio has adopted the following Environmental Management Policy.

Casio's goal is to become carbon neutral by leveraging its ability to develop compact, lightweight, slim, and energyefficient products to create new markets and cultural phenomenon.

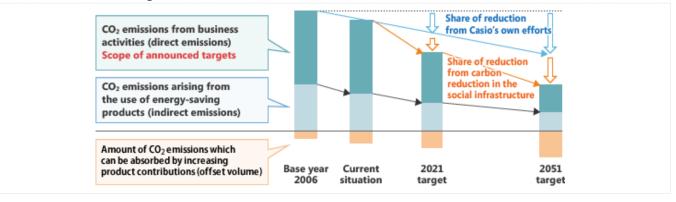
*1. Casio defines "carbon neutral" as offsetting its direct CO2 emissions with CO2 emissions reduction and absorption through other methods.

Scope of emissions reduction targets

When Casio established its medium- and long-term emissions reduction targets, it also announced the target scope as greenhouse gas emission from business activities at Casio's production sites and offices in Japan and around the world. Furthermore, Casio is aiming to become a carbon neutral company by offsetting its total volume of greenhouse gas emissions (including the CO₂ emissions resulting from logistics, product usage, employee travel, and consignment production) with the reduction effects of Casio's eco-products such as data projectors, electronic dictionaries and other products that promote paperless lifestyles.

In addition to the CO2 emissions reduction achieved by the efforts of the Casio group, the target CO2 emissions reduction also includes reductions due to the availability of cleaner energy such as electricity, and due to carbon reduction in the entire social infrastructure (see diagram).

CO2 Emissions Reduction Targets



Switching to total-volume emission reduction targets

With the setting of global medium- and long-term targets, total-volume emissions reduction targets for greenhouse gases have been established in Japan and around the world, including reduction targets and emission trading systems. Casio has now finished the move to total-volume emissions reduction targets.

Casio had already set targets for the total volume of greenhouse gas reduction at its offices worldwide. However, with the establishment of its recent medium- and long-term targets, Casio has now set worldwide targets for reductions in the total volume of CO2 emissions, which is a change from previous targets for reduction per unit of production.

The base year for Casio's medium- and long-term targets is fiscal 2006, decided based on changes in Casio's business structure, as well as the scope and accuracy of data acquisition.

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Medium- and long-term targets

Casio group's medium- and long-term targets for greenhouse gas emissions reduction

- Medium-term target : To reduce the total volume of global greenhouse gas emissions from business activities by 30% compared to fiscal 2006, by fiscal 2021
- Long-term target : To reduce the total volume of global greenhouse gas emissions from business activities by 80% compared to fiscal 2006, by fiscal 2051.

* Business activities: This indicates activities of production sites and offices in Japan and overseas, and does not include CO2 emissions from logistics, product usage, or employee travel.

Managing risks and opportunities

As a result of the March 2011 Great East Japan Earthquake and the ensuing accident at the Fukushima nuclear power station, virtually all nuclear power stations across Japan have suspended operations. Japan is faced with such risks as rising electricity tariffs and power shortages in summer and winter. Moreover, the greenhouse gas emission coefficient for electricity has risen as a result of the decline in the utilization of nuclear power generation, resulting in an increase in real CO₂ emissions. This translates into greater risk of incurring emissions trading costs under the Ordinance on Environmental Preservation to Secure the Health and Safety of the Tokyo Metropolitan Area (Environmental Preservation Ordinance). Also in 2011, there was major flooding in Thailand, which may be partially attributable to global warming and upstream deforestation. Consequently, global risks have become apparent including threats to the value chain for production and parts.

In order to avoid these risks, Casio plans to expand the introduction of renewable energy, and secure alternatives in the value chain.

On the other hand, the greenhouse gas reduction effect at time of product usage offered by Casio products which promote paperless lifestyles, such as data projectors and electronic dictionaries, has been identified as a significant opportunity to address climate change over the product life cycle. Casio will work to further expand its business in these products.

In order to minimize the various risks mentioned above, and expand opportunities, Casio must contribute to the sustainability of the planet and its human societies. Casio recognizes that this is an extremely important issue for further strengthening its business foundation, and will make even more strenuous efforts in the fight against climate change.

Measures for achieving medium- and long-term targets

Casio has set medium and long-term targets for achievement by 2020 and 2050. Among the three areas that the Casio Environmental Declaration 2020 focuses on, Casio will put the highest priority on realizing a low-carbon society.

Realizing a low-carbon society

The Casio Group will provide products and services that make an even greater contribution to the reduction and absorption of CO2 emissions. In addition to expanding products and services that use energy sources that are friendly to people and the planet, including solar, wind, and hydro power, Casio will incorporate these renewable energy sources into its own business operations.

Casio Europe has been operating geothermal cooling and heating in its office building since January 2009. In fiscal 2013, Casio will also begin investigating initiatives for the use of renewable energy including solar.

Regarding other indirect CO₂ emissions (GHG Protocol Scope 3 emissions), Casio will work to expand the scope of disclosure of other indirect CO₂ emissions generated during distribution and product usage, which it already discloses, based on the calculation guidelines being considered currently by the electrical and electronics industry associations.

Measures for 2020

Casio is studying the potential of the following initiatives to achieve the medium-term target for 2020. It will also strive to assess as quickly as possible their potential to help meet the 2050 target.

1. Response to social environment changes after the Great East Japan Earthquake

- Responding to energy issues
- · Introducing renewable energy sources

2. Environmental contribution through product usage

- · Reducing the amount of electricity used by products
- · Minimizing and optimizing the amount of product packaging
- · Increasing the percentage of products that run on solar cells

3. Utilizing carbon offsets

- · CO2 absorption effect based on the expansion of paperless products (reducing demand for logging, etc.)
- Purchasing carbon offsets for products
- Promoting tree planting and greening
- · Emissions trading, Clean Development Mechanism (CDM), and Joint Implementation (JI)

4. Reduction of CO2 emissions in various business activity processes

- · Materials procurement, product manufacturing, transport and distribution, product usage, recycling, and disposal
- · Expansion of the scope of CO2 emission data gathering on logistics, transport efficiency improvement, and modal shift
- · Making production facilities more energy efficient, and improving production processes

5. Increasing the percentage of non fossil-fuels used at sites

- · Installation of LED lighting
- · Installation of solar panels
- · Installation of highly efficient air conditioning equipment

New Energy Conservation Targets for Fiscal 2014 (Power, Fuel, etc.)

Starting in fiscal 2014, Casio established the new energy conservation targets described below with a target year of fiscal 2016 in an update of its energy conservation targets up to fiscal 2013.

By fiscal 2016, the Casio group overall will reduce energy usage (crude oil equivalent kL) by 13% per unit of total floor space compared with fiscal 2011. In setting the new target, Casio changed from establishing targets for production sites in Japan, offices in Japan, production sites outside Japan and offices outside Japan, respectively, as it did in the past, to establishing an overall Group target. Moreover, while the target for production sites was previously expressed per production, Casio has employed per unit of total floor space for the new target, which is as close as possible to an absolute target.

Casio has established energy conservation targets as a crude oil equivalency (kL) for fuel and power usage, and this has made it possible to evaluate actual energy conservation programs without relying on the CO2 emission coefficient for purchased power.

Fiscal 2013 Performance

The amount of CO2 emissions for the Casio group overall in fiscal 2013 rose 5.7% compared to fiscal 2012, which represented a 64.5% decrease compared to fiscal 2006. In fiscal 2013, Casio Micronics was transferred, Kofu Casio was closed down, and energy-saving activities were carried out by the entire Casio group. As a result, total energy use by the entire Casio group fell by 7.9% in crude oil equivalency compared to fiscal 2012. However, the CO2 emission coefficient for the amount of power in Japan worsened by 36% compared to the previous fiscal year, so the total amount of CO2 emissions increased.

For more information, see "Reducing CO2 emissions", "Fiscal 2013 Casio Environmental Action Plan Performance".

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