

# Environment

One of Fuji Electric's management policies states "Through our innovation in energy and environment technology, we contribute to the creation of responsible and sustainable societies." This policy guides a united, Groupwide effort to address global environmental issues. Moreover, acting in accordance with the Basic Environmental Protection Policy, we aspire to help preserve the global environment through the reduction of CO<sub>2</sub> emissions from our factories and the provision of energy-saving and energy-creating products to society.

## Basic Environmental Protection Policy

- 1 Offering products and technologies that contribute to global environmental protection
- 2 Reduction of environmental burden throughout product life cycles
- 3 Reduction of environmental burden in business activities
- 4 Compliance with laws, regulations, and standards
- 5 Establishment of environment management systems and continuous improvements of the systems
- 6 Improvement of employees' environmental awareness and social contribution
- 7 Promotion of communication

## Environmental Vision

In 2009, Fuji Electric formulated Environmental Vision 2020 to guide its medium-to-long-term environmental activities, and we have been working toward the goals of this vision since.

This vision is centered on three specified material issues of stopping global warming, creating a recycling-oriented society, and meeting our corporate social responsibilities. In addition to reducing the environmental footprint of our own production activities, we seek to help achieve sustainable

societies by providing products and technologies that leverage our strengths in electrical and thermal energy technologies.

At the moment, Fuji Electric is in the process of formulating its new Environmental Vision 2050, a long-term vision based on the Paris Agreement, which was adopted by the United Nations to shape action against global environmental issues, as well as on Japan's plan for global warming countermeasures.

## Fuji Electric's Environmental Vision 2050



Paris Agreement adopted by the United Nations

### Japan's Plan for Global Warming Countermeasures

80% reduction in greenhouse gas emissions from FY2013 levels by FY2050  
26% reduction in greenhouse gas emissions from FY2013 levels by FY2030

## Fuji Electric's Environmental Vision 2020

Stop Global Warming	Create a Recycling-Oriented Society	Meet Our Corporate Social Responsibilities
<ul style="list-style-type: none"> <li>• Reduce CO<sub>2</sub> emissions during production by 20% (compared with fiscal 2006 levels).</li> <li>• Raise the energy efficiency of products, reducing CO<sub>2</sub> emissions by 30 million tons through energy-conserving and energy creating products.</li> </ul>	<ul style="list-style-type: none"> <li>• Increase our number of eco-products by promoting the 3Rs (reuse, reduce, recycle) in our products.</li> <li>• Achieve zero emissions at operational sites by reducing waste and the use of energy and chemical substances.</li> </ul>	<ul style="list-style-type: none"> <li>• Strive to enhance environmental awareness through environmental citizen movements, activities to protect the natural environment, and environmental education</li> </ul>

## Prevention of Global Warming

Fuji Electric endeavors to help stop global warming by reducing CO<sub>2</sub> emissions around the world through energy conservation activities at factories and offices and through the supply of energy-saving and energy-creating products and services.

### Reduction of CO<sub>2</sub> Emissions During Production

In fiscal 2017, total CO<sub>2</sub> emissions from Fuji Electric's production activities amounted to 328,000 tons on a global basis. Emission reduction initiatives included the consolidation of clean rooms in Japan (Matsumoto and Tsugaru) and the installation of solar power generation facilities with a combined capacity of 92 kW overseas (Malaysia and Singapore). In addition, we utilized Fuji Electric products and technologies to introduce factory energy management systems capable of tracking and optimizing energy usage at the Suzuka Factory and the Fukiage Factory.

### Reduction of Society's CO<sub>2</sub> Emissions through Products

Fuji Electric contributes to reduced CO<sub>2</sub> emissions across society by supplying customers with products boasting high energy efficiency.

Contributions to CO<sub>2</sub> emission reductions from products totaled 25,790,000 tons in fiscal 2017, an increase of 3,490,000 tons over fiscal 2016. Particularly large contributions to emission reductions were made by inverters and other power electronics systems products (2,800,000 tons) and electronic devices, such as power semiconductors that limit heat production (540,000 tons).

## Creation of a Recycling-Oriented Society

By promoting initiatives focusing on the 3Rs (reuse, reduce, recycle) as part of its business activities, Fuji Electric is working to realize zero waste emissions at its operating sites and thereby contribute to the creation of a recycling-oriented society.

### Waste Reduction

In Japan, Fuji Electric has achieved its goal of zero waste emissions every year since fiscal 2004. In fiscal 2017, we once again achieved our target of reducing the ratio of waste sent to landfills to below 0.5% with a ratio of 0.17%.

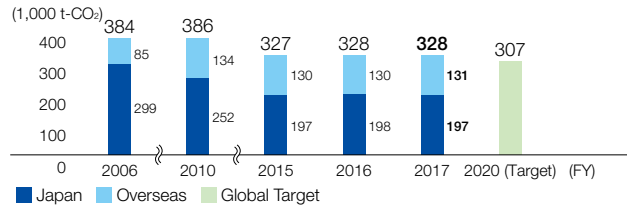
Overseas, the inability to recycle certain sludge (industrial waste) produced during water treatment processes at the Malaysia Factory caused the ratio of waste sent to landfills to increase to 17.29% in fiscal 2015. However, this ratio fell to 8.07% in fiscal 2017 as a result of efforts to recycle this sludge as material for use in making cement.

### Efficient Use of Water Resources

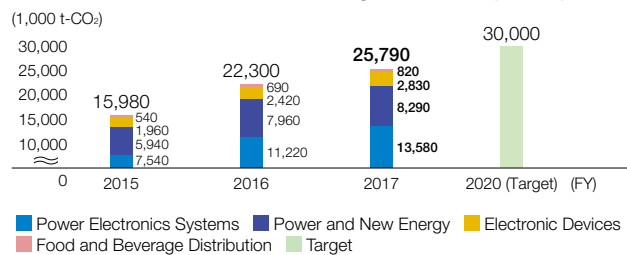
In view of the problem of global water resource depletion, Fuji Electric is advancing measures to comply with wastewater quality requirements, reduce wastewater, and achieve more efficient use of water resources.

In fiscal 2017, domestic and overseas water recycling initiatives led total water usage to amount to 12,523,000 tons, even less than the target of 13,575,000 tons.

### CO<sub>2</sub> Emissions from Production Activities (Global)

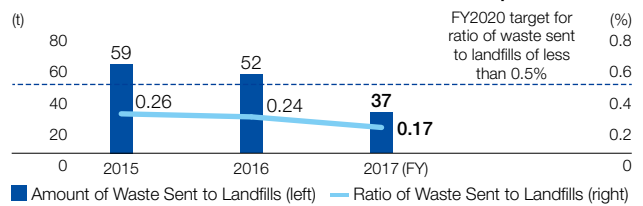


### Reductions to CO<sub>2</sub> Emissions through Products\* (Global)

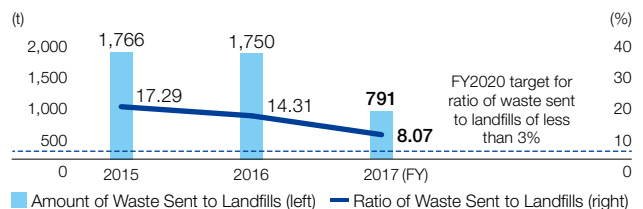


\* Amount of CO<sub>2</sub> reduction is based on one year of operation of products shipped for each fiscal year after fiscal 2009. Calculated making reference to the quantification method of greenhouse gas emission reductions stipulated in the electrical and electronics industries' Action Plan for Commitment to a Low-Carbon Society

### Amount and Ratio of Waste Sent to Landfills in Japan



### Amount and Ratio of Waste Sent to Landfills Overseas



### Water Usage Volumes (Global)

