

# Environmental Management

To help create a sustainable society, we are pursuing Groupwide environmental management to both the business activities and environment.

## Tackling Global Environmental Issues

### Reducing Greenhouse Gas Emissions

We have undertaken activities in power supply and consumption and in applying the Kyoto Mechanism and as part of steady progress toward creating a low-carbon society.

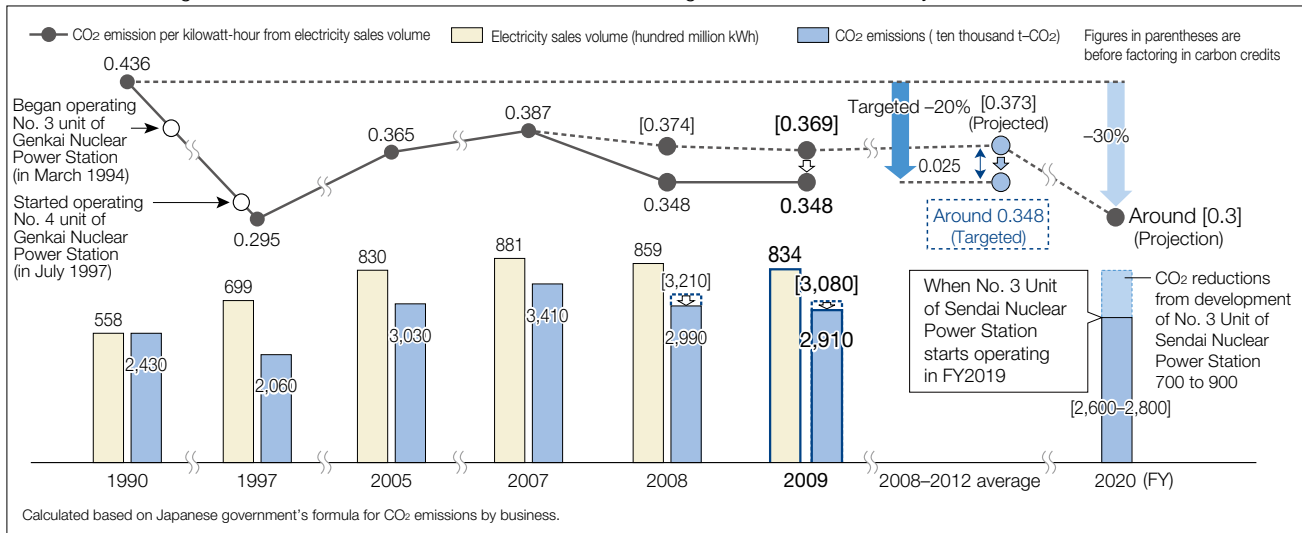
In FY2009, we reduced our CO<sub>2</sub> emission 800,000 metric tons from a year earlier, to 29.1 million metric tons.

CO<sub>2</sub> emissions from electricity sales volume were 0.348 kg per kWh. We achieved our goal for the second straight year of lowering emissions 20% from FY1990 levels.

**Goal**

Cut average CO<sub>2</sub> emissions intensity from electricity sales volume for FY2008 through FY2012 by around 20% from 1990 levels (reduce to around 0.348kg-CO<sub>2</sub>/kWh)

▼CO<sub>2</sub> emissions kg-CO<sub>2</sub>/kWh, results and forecasts for CO<sub>2</sub> emissions kg-CO<sub>2</sub>/kWh from electricity sales volume



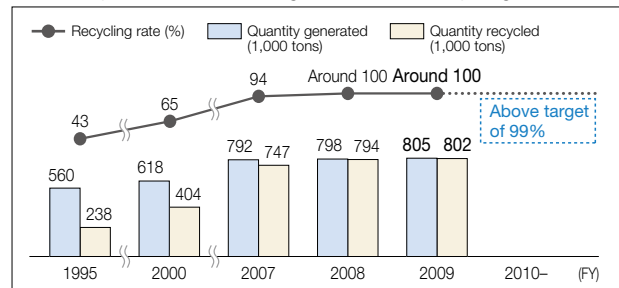
## Creating a Recycling-Oriented Society

### Undertaking Zero-Waste Emission Activities

Our industrial waste includes coal ash and gypsum from thermal power operations and materials we remove from construction work. We properly manage and treat such waste in keeping with legal requirements, and are practicing the 3Rs (Reduce, Reuse and Recycle) to minimize such waste.

We also properly manage, process, and practice the 3Rs for general waste, including the paper we use in our offices, shellfish from power plants, and driftwood from dams.

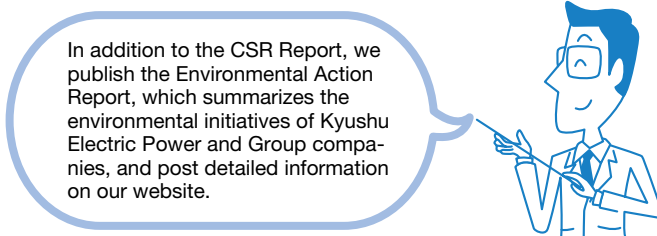
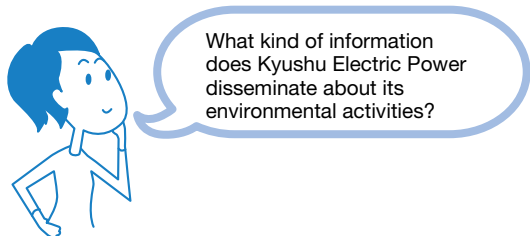
▼Quantity of industrial waste generation and recycling rates



▼General waste from paper and other sources in FY2009

	Amount created (metric tons)	Amount recycled (metric tons)	Recycling rate (%)	Major uses of recycled materials
Paper	1,390	1,390	100	Recycled paper
Shellfish	162	147	91	Fertilizer
Dam driftwood	2,082	2,082	Around 100	Alternative litter





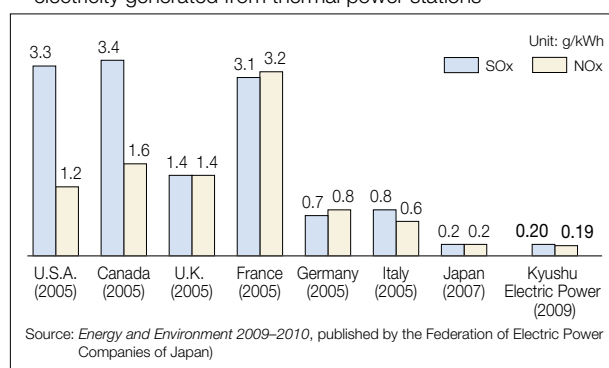
## Preserving the Environment

### Air Pollution Measures

We have implemented various measures to reduce emissions of sulfur oxides and other pollutants from our thermal power stations.

As a result of appropriate facility operations, our sulfur oxide and nitrogen oxide emissions per unit of electricity generated from our thermal power stations were far below the international standard in FY2009.

▼ Global sulfur oxide and nitrogen oxide emissions per unit of electricity generated from thermal power stations



## Working with Society

### Kyushu Homeland Forestation Program

We commemorated our 50th anniversary in FY2001 by launching the Kyushu Homeland Forestation Program. We are working with regional residents in this initiative to plant one million trees in 10 years.

We promote forestation largely by planting native evergreen oaks that require less upkeep.



Kyushu Homeland Forestation Program at Higata Yoka Park in Saga City, Saga Prefecture

### Eco Mothers Activities

We initiated Eco Mothers Activities in FY2003 to help educate children about the environment and provide parents with information so they can enlighten their children at home.

In the past few years, more than 20,000 children and parents have participated in around 300 visits annually. The number of participants exceeded 100,000 in the past seven years.



Eco Mothers Activity at Kasugamachi Kindergarten in Oita City, Oita Prefecture

## Pursuing Environmental Management

### Environmental Management Systems

All our business sites have created and deployed environmental management systems based on the ISO14001 certification standards to ensure that we consistently comply with environmental requirements and reduce our environmental impact.

Our Environmental Affairs Department seeks ongoing improvements in operational standards for our environmental management systems by providing

operational support for business sites and training for environmental management officers and offices.

Each Group company builds its own environmental management system based on the Group's standard for constructing such systems, which has six construction stages.

Group companies collaborate in environmental management, consistently lowering environmental impact by accurately implementing and effectively applying environmental management systems.



Sulfur oxide  
Nitrogen oxide

Environmental management system  
ISO14001