

Environmental Activities by Plant

Environmental Activities at the Nagoya Plant



Nagoya Plant

Address: 2-56, Suda-cho, Mizuho-ku, Nagoya
Major products: HONEYCERAM®, NAS® batteries, etc.

Representative:

Masanao Ono, Director and Senior Vice President, Chief of the Nagoya Plant

Measures to Prevent Global Warming

Medium-term Greenhouse Gas Control Targets
3% reduction from 2003 levels by 2006

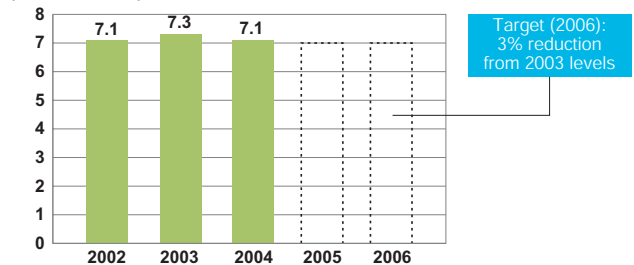
In 2004, as a result of implementing increased efficiency in packing products into tunnel kilns and other improvements in production technology, appropriate operation of air conditioning in clean rooms and offices, strict adherence to energy management standards, and energy-savings activities such as turning off lights during the daytime, we have achieved our targets for reductions in greenhouse gases. We will also be implementing increased measures to this end in the future.

By-product Recycling Targets
Achieve zero emissions in 2005

In 2004, we significantly expanded the range of recycling by moving over to full-scale operation of the external recyclers that we developed in 2003. In 2005, we will continue to strive to control quantities generated by expanding recycling and improving productivity, and aim to achieve zero emissions.

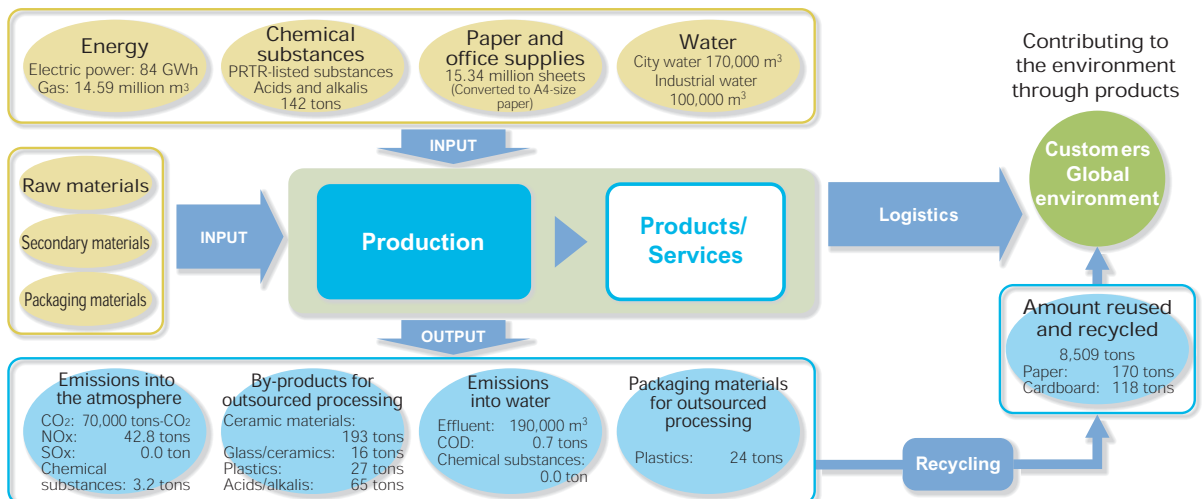
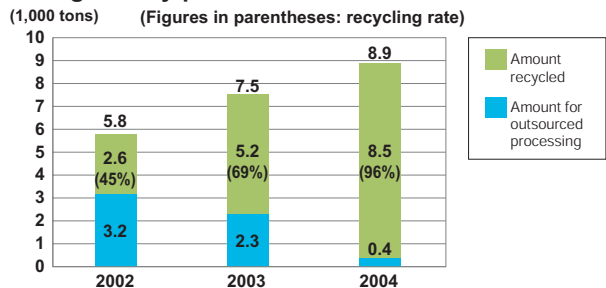
Changes and Planning for Greenhouse Gas Emissions

(10,000 tons-CO₂)



Changes in By-product Emissions

(1,000 tons) (Figures in parentheses: recycling rate)



Environmental Activities at the Chita Plant



Chita Plant

Address: 1, Maegata-cho, Handa, Aichi

Major products: Insulators, equipment for electrical transmission and distribution, ceramic products for the chemical industry, beryllium-copper strips, ceramic components for semiconductor manufacturing equipment, etc.

Representative:

Tsurayuki Okamoto, Director and Senior Vice President, Chief of the Chita Plant

Measures to Prevent Global Warming

Medium-term Greenhouse Gas Control Targets
5% reduction from 2003 levels by 2006

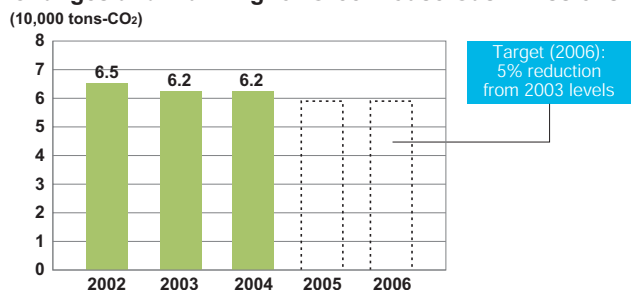
In 2004, the increased quantities in greenhouse-gas emissions resulting from a rise in output were reduced through the introduction of fast drying and firing technologies and the efficient operation of bag filters, enabling us to keep the total emissions to 2003 levels.

By-product Recycling Targets
Achieve zero emissions in 2005

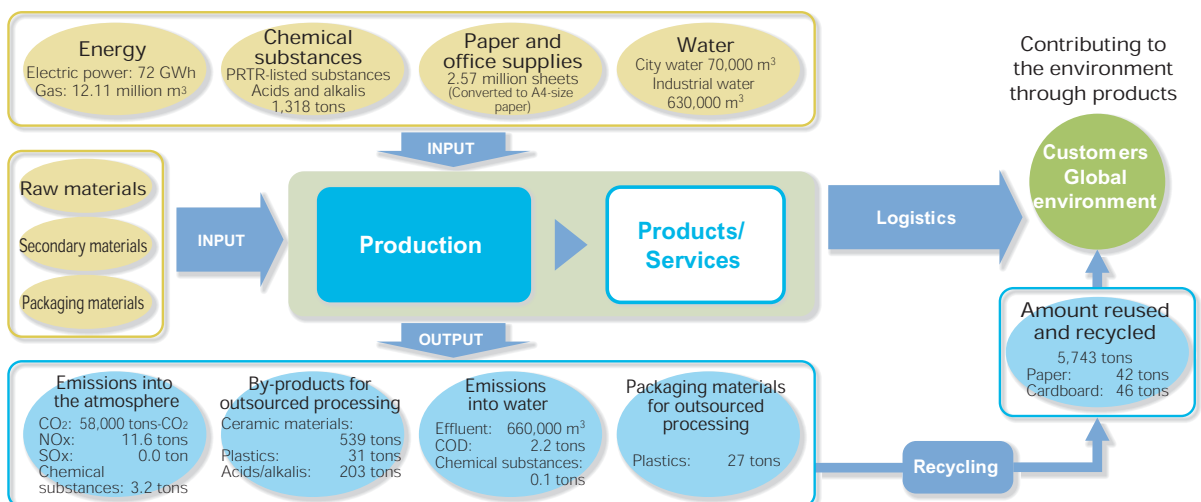
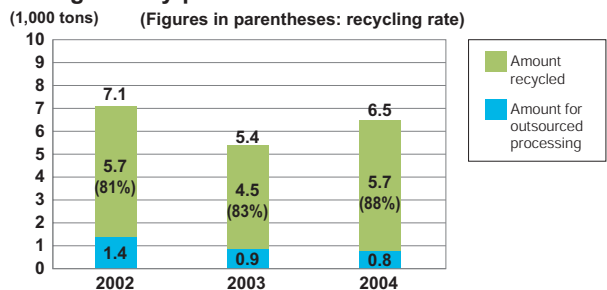
In 2004, we implemented recycling of insulator cement and of washing fluid in the Metal Plant, thereby reducing quantities for outsourced processing. However, our delay in recycling ceramic materials other than insulator cement, as well as the increases in quantities at the Metal Plant and the delay in investment in facilities for the recovery of washing fluid, all meant that we were unable to achieve our planned targets.

In 2005, we will strengthen separation, and aim to both continue our expansion of recycling and to achieve zero emissions.

Changes and Planning for Greenhouse Gas Emissions



Changes in By-product Emissions



Environmental Activities at the Komaki Plant



Komaki Plant

Address: 1155, Tagami, Futaebori, Komaki, Aichi

Major products: Suspension insulators for electrical transmission, equipment for electrical transformation and distribution, HYCERAM®, etc.
From 2003, plants in operation for the production of NAS® batteries and SiC-DPFs (diesel particulate filters)

Representative:

Eiji Hamamoto, Director and Senior Vice President, Chief of the Komaki Plant

Measures to Prevent Global Warming

Medium-term Greenhouse Gas Control Targets

Keep 2006 levels to within a 15% increase over 2003 levels

In 2004, in spite of a rise in output, we have managed to keep 2004 emissions of greenhouse gases to approximately a 14% increase over 2003 levels as a result of our combined efforts in production technologies including cut-down firing times and energy conservation activities such as recovery of steam generated. In the future, we will continue to make efforts to reduce emissions of greenhouse gases through improvements in production processes and manufacturing facilities.

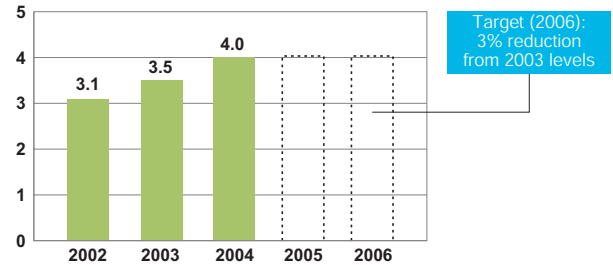
By-product Recycling Targets

Achieve zero emissions in 2005

2004 saw an increase in the production of new products (NAS® batteries and SiC-DPFs), but measures such as the recycling of insulator cement, implementation of measures to curb its generation, and cooperation with external recyclers for by-products generated in the manufacture of new products have resulted in reduced quantities for outsourced processing. In 2005, we will strengthen separation, expand recycling, and broaden our strategies in order to curb generation of by-products, all with the aim of achieving zero emissions.

Changes and Planning for Greenhouse Gas Emissions

(10,000 tons-CO₂)



Changes in By-product Emissions

(1,000 tons)

(Figures in parentheses: recycling rate)

