

We contribute to the formation of a recycling-oriented society by curbing the discharge of waste products while increasing the recycling rate.

Curbing Discharge of Waste Products and Increasing the Recycling Rate

Web search 15-1

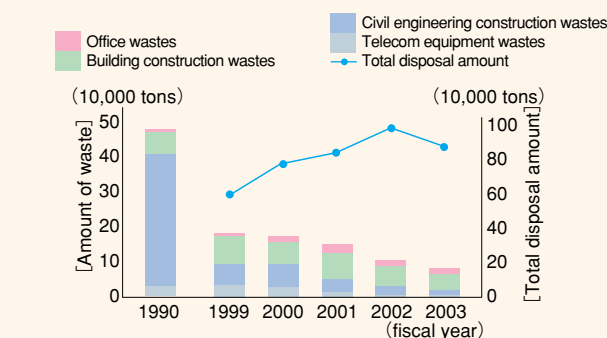
Development of a resource recycling-oriented business model requires efficient use of less resources, efforts to reduce the discharge of waste products, while at the same time increasing the recycling rate.

Committed to reduce the final disposal volume of waste products to less than 15% of the 1990 level by the year 2010 as one of its principal activity targets, the NTT Group is making good headway toward this goal by reusing and recycling decommissioned telecom equipment, recycling building and public works related waste products, and recycling office waste products. As a result of these efforts, the volume of final waste products (final disposal amount) reached 77 thousand tons in 2003, the lowest level since 1999. This can largely be attributed to a 110 thousand tons drop in waste disposal amount since last year, but was also helped by an increased rate of recycling.

Our efforts will continue to focus on further increasing the recycling

rate of waste products to reach our ambitious 2010 target for reducing our environmental impact.

● NTT Group volume of final waste products and total emissions

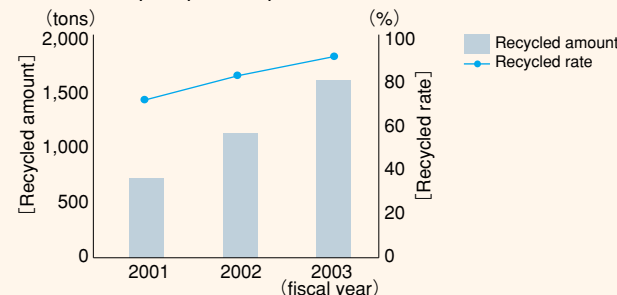


Recycle of More Than 92% of Decommissioned Optical Cable

Web search 15-2

Increasing amounts of optical cable are being deployed every year as broadband network continues to evolve, and the recycling of disposed optical fiber cable has emerged as a major issue. Until recently, disposed optical fiber cable was simply disposed of by burning, but in 2001 the NTT Group developed a practical disposed optical fiber cable recycling system that permits the cable sheathing as well as the core to be disassembled and sorted into separate materials. In 2003, 1,760 tons of disposed optical fiber cable were collected and 1,628 tons were recycled. This represents a recycle rate of 92.5%, an improvement over 2002 of 8.7%.

● NTT Group disposed optical fiber cable



Development of the Long-Life Eco Steel Telephone Pole to Reduce Environmental Loads

Web search 15-3

Along with concrete telephone poles, steel telephone poles are a critically important infrastructure for supporting telephone and broadband services, and both NTT EAST and NTT WEST own a huge number of steel poles all across the country. Both companies have jointly developed a long-life eco steel telephone pole. The bottom part of this pole is protected from corrosive underground environments with PET*1 powder coating. This coating significantly increases the life time of steel telephone poles, resulting in an equivalent reduction in natural resources and energy required for the production of poles. The high mechanical durability of the coating makes used poles reusable. The steel is recycled in economical systems already established in the society. All these combined give the pole "3R" credit.*2 This coating eliminated all

the toxic contents existent in the previous coating, and no organic solvent that is a cause of photochemical smog is used in the coating process.

*1 The same plastic material used in PET plastic bottles. PET is an abbreviation for poly(ethylene terephthalate).

*2 Eco steel telephone poles epitomize the triple R's of environmental concern: reduce, reuse, and recycle.



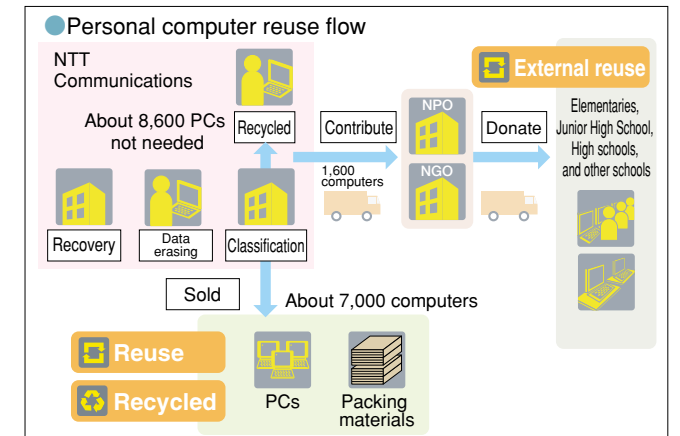
1,600 Personal Computers are Donated to Elementary Schools, Junior High Schools, High Schools, and Other Schools Over the Country

Web search 16-1

As computers renewal of the whole company, NTT Communications adopted the environmental policy "to reuse the personal computer which became unnecessary in the company as much as possible." From October 2003 to the end of the year, 600 computers were donated via the environmental NGO and another 1,000 computers were also presented to elementary schools, junior high schools, and high schools spread all across the whole country through the NPO.

The entire staff made the effort to find the way of reusing and recycling all old computers that were not donated and even the packing material that came with the computers. As a result of that, they could realize, "zero-waste" renewal of all computers in the company.

To ensure the confidential information leak prevention, the hard disks of the all donated personal computers crased completely under the strict security policy.

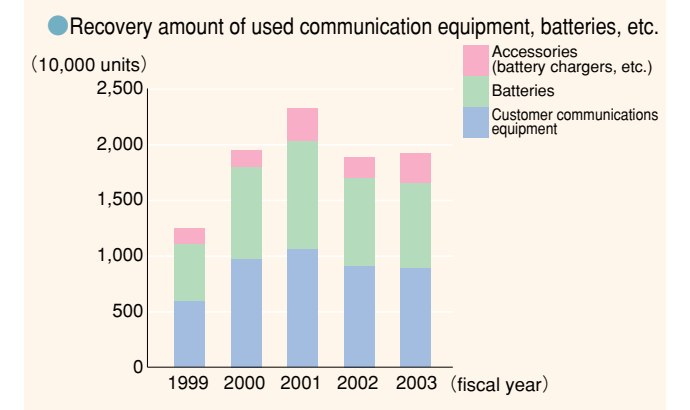


Recovery of Used Communications Equipment

Web search 16-2

A serious concern of the NTT Group in its environmental protection efforts is how to recover used and no longer needed communication equipment and attachments. NTT EAST and NTT WEST are now mounting a proactive effort to recover small rechargeable batteries (nickel cadmium batteries, lithium-ion batteries, etc.) used in business, residential, and cordless phones as well as toner cartridges from ordinary paper fax machines. At the same time, NTT DoCoMo is making efforts to collect the full range of used mobile phone equipment including cell phones, car phones, PHS phones, batteries, and battery chargers.

In 2003, working in cooperation of its customers, NTT EAST and NTT WEST recovered 320 thousand rechargeable batteries, while the NTT DoCoMo Group successfully recovered 8.84 million phones, 7.36 million batteries, and 2.68 million chargers and other equipment.



Mobile Phone Service Provider Uses Desk Holder Recycled Plastic for the First Time

Web search 16-3

In May 2003, NTT DoCoMo became the first mobile phone service provider to use recycled plastic (ABS) from used cell phone desktop recharging units as a material in new models. While recovered plastic components have been used in the past for auto parts and in other industries, in this case greater efficiencies are realized as the material is reused within the same industry, thus streamlining the distribution channel.



Desktop recharging unit using recycled plastic