Our Approach

Although our one-way society of mass production, mass consumption and mass disposal has brought affluence and convenience to our lives, it has brought about various problems such as the creation of massive amounts of refuse, illegal dumping and concern about the depletion of natural resources. To resolve these issues we must first review how companies manage their businesses as well as our social and economic systems, and shift to a closed loop society.

In an effort to realize a future with closed loop recycling, NTT Group promotes the 3Rs (reduce, reuse and recycle), working to reduce the amount of materials consumed by our business activities and reuse or recycle the resources that are consumed.

Organization for Implementation

NTT Group has established a Closed-loop Recycling Committee, which works under the NTT Group Global Environmental Protection Promotion Committee. The Closed-loop Recycling Committee has the senior manager of NTT West's real estate planning department as its chair and the people responsible for the environment or facilities at eight major Group companies as members. The committee investigates and promotes closed loop recycling-related measures in NTT Group, promotes measures aimed at achieving our targets for waste disposal, considers targets and measures for resource procurement and retention, and manages the implementation of these measures.

The working groups (WG) under the committee advance activities according to their respective themes. The Construction Waste WG promotes measures and keeps track of results regarding the disposal of industrial waste produced by construction and public works, the Decommissioned Telecom Facilities WG promotes measures and keeps track of results regarding the disposal of industrial waste produced by decommissioned telecom facilities, the Business and General Waste WG promotes measures and keeps track of results regarding the disposal of office and business-related waste, and the PCB Storage and Disposal WG engages in the storage of PCB waste so that it can be disposed of in an appropriate way.

Targets and Results

NTT Group has established a target to continually achieve zero emissions by fiscal 2031 in which the final disposal ratio of waste generated by NTT Group is under 1%. We require a large amount of resources in order to sustain our business operations and provide various services including information communication. This is why we have set a target to contribute to both the avoidance of business continuity risks and achievement of closed loop recycling.

In fiscal 2019, the percentage of final disposal waste was 0.914%. We will continue to work hard to promote the 3Rs in order to achieve zero emissions again and maintain it until fiscal 2031.

Regarding decommissioned telecommunications equipment, we have achieved zero emissions for 15 consecutive years since fiscal 2005.

Main Initiatives

Reuse and Recycling of Telecommunications Equipment

NTT Group owns various types of telecommunications equipment and related items including telephone poles, switching equipment, communications cables, public telephone booths and public telephones. These are decommissioned and disposed of when they reach the end of their service life or are replaced during system upgrades for new services and so forth.

We promote the reuse, or recycling, of telecommunications equipment within NTT Group; for example: recycling concrete waste from discarded concrete poles as road building material. Public telephone booths and public telephones are taken to a specialized intermediate treatment plant, where parts of the booths are sorted into aluminum, stainless steel, glass and plastic. Similarly, the baseboards, copper wires and various plastics in the public telephones are meticulously sorted. They are then sent to a recycling plant to become recycled materials such as rare metals, copper and pellets. The recycling rate there is reflected in the precision, as a result of careful hand sorting, at the intermediate treatment plant.

To prevent the inappropriate treatment of the materials, such as illegal dumping, NTT East collaborated with NTT-ME
Protect Environment

Recycling Process for Mobile Phones

Containing gold, silver, copper, palladium and other metals, mobile phones could be regarded as a valuable recycling resource in Japan with its paucity of mineral resources. NTT DOCOMO has accordingly collected used mobile phones from customers since 1998 at its approximately 2,300 docomo shops throughout Japan, and through various events. In fiscal 2019, we collected about 5.91 million* mobile phones, bringing our cumulative total to 1.113.6 million units collected.

In fiscal 2012, the company introduced a new recycling process for pyrolyzing any plastic used in mobile phones to turn it into oil for use as a fuel, after which gold, silver and other metals are recovered from the residues of this process.

Through such initiatives, NTT DOCOMO took part in the “Making medals from urban mines! Everyone’s Medal Project.” Thanks to everyone’s support, over the two years of the project we were able to recover a cumulative total of around 6.21 million mobile phones and gathered the volume of metal needed to manufacture the medals.

Going forward, we will continue to implement recycling initiatives and contribute to realizing a sustainable society.

* The number of units collected for reuse is included in the figure after fiscal 2016.

Making medals from urban mines! The "Everyone’s Medal" Project WEB
https://medal-project.idc.nttdocomo.co.jp/#/boards/ourmedal (Japanese only)

Hazardous Waste

For NTT Group operations, hazardous waste as defined by law applies to asbestos contained in waste generated from construction work on relay stations, waste such as transformers and condensers containing PCBs, and lead batteries. These are disposed of appropriately and in compliance with the Waste Management and Public Cleansing Law (Waste Disposal Law) as well as other laws and regulations, and NTT Group does not have a record of disposing of such waste in foreign countries. We also pay meticulous attention to the proper storage and management of equipment containing PCBs and PCB contaminated wastes, and dispose of them with safe and appropriate methods in conformity with the Law Concerning Special Measures Against PCB Waste.

Water Management

Due to the nature of NTT Group’s business, little water is consumed in our operations. In Japan, one-year domestic and industrial water consumption totaled 25.9 billion m³, while NTT Group’s water consumption totaled 6.28 million m³, only about 0.03% of the total for all of Japan. Moreover, our water use is spread out across the country and so we believe our water intake does not have any significant impact on water sources.

NTT Group reduces its consumption of tap water by using recycled wastewater and rainwater.

Research centers where we use chemical substances in our research activities implement individual measures against leakages of chemical substances into wastewater. For example, at the Atsugi R&D Center, which carries out research on the physical properties of materials, we have installed equipment to treat chemical-infused waste liquid discharged by the laboratories. Furthermore, we regularly monitor the quality of this wastewater to confirm that it is within legal regulation values. NTT Group has not been involved in any significant spills.

* From the Ministry of Land, Infrastructure, Transport and Tourism website: Actual water use in fiscal 2013 (water intake basis) was approximately 80.5 billion m³ per year (domestic and commercial use of water: approximately 15.1 billion m³; water for industrial use: approximately 11.5 billion m³; water for agricultural use: approximately 53.9 billion m³).

Paper Management and Recycling

Paper consumption of NTT Group in fiscal 2019 was 38 thousand tons. As for telephone directories, which account for more than 70% of our paper consumption, we established a closed loop recycling system in 1999 to collect old directories and recycle them to produce new ones. We undertake numerical management for our use of virgin pulp.

Also, we are working to reduce paper consumption of society through the use of ICT, which includes measures such as our Internet billing service* (electronic invoice).

* Internet billing service: A service enabling customers to check their charges and usage at any time online.