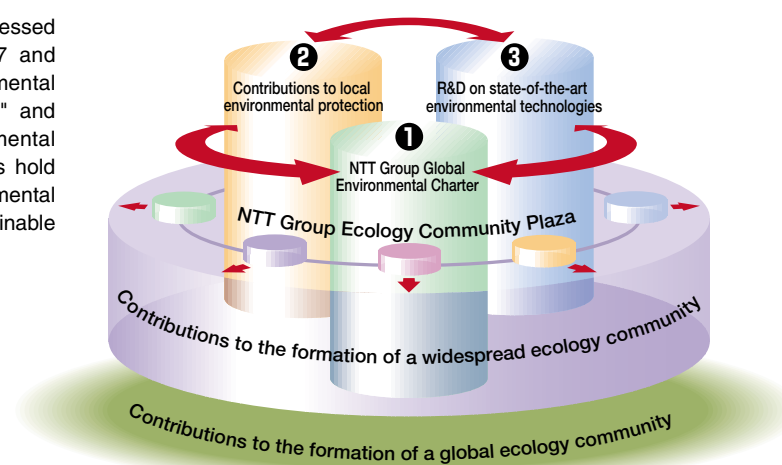# Help build a sustainable society based on NTT Group Ecology Program 21.

## NTT Group Ecology Program 21

Our basic approach for achieving a sustainable society is expressed in the "NTT Group Ecology Program 21" formulated 1997 and consists of three pillars: the "NTT Group Global Environmental Charter," "Contributions to Local Environmental Protection," and "Research and Development of State-of-the-Art Environmental Technologies." We believe that these three basic documents hold the key to reconciling our corporate activities with environmental conservation, and will guide us toward achieving a truly sustainable society.



❷ Contributions to local environmental protection
❸ R&D on state-of-the-art environmental technologies
❶ NTT Group Global Environmental Charter
NTT Group Ecology Community Plaza
Contributions to the formation of a widespread ecology community
Contributions to the formation of a global ecology community

■NTT Group Ecology Program 21 (conceptual diagram)

## NTT Group Global Environmental Charter

The NTT Group Global Environmental Charter is based on concepts outlined in NTT Group Ecology Program 21, and clarifies our basic principles, policies, and targets for global environmental protection. Prevention of global warming, waste management, and paper resource management have been identified as key areas where we as a corporation impose major burdens on the environment, and we are seeking to roll back our emission levels to concrete, measurable

targets as defined in "Principle Activity Targets for the NTT Group"＊ by 2010.

＊See page 5 for information about these Principle Activity Targets.

### NTT Group Global Environmental Charter

We need to recognize the extent and gravity of current environmental issues, including global warming, ozone layer depletion, destruction of the tropical rain forest, desertification, acid rain, and contamination of the oceans. We must also recognize the degree to which these issues are the direct result of current societal systems which are intimately linked to corporate activities.

As a business enterprise, we have a responsibility to dedicate ourselves to harmonizing our business activities with global efforts to protect the environment in order to realize sustainable growth and eliminate problems for future generations. Based on this fundamental recognition, we here establish the NTT Group Global Environmental Charter to clarify our basic policies and actions concerning these issues.

### 〔Basic Principle〕

To ensure the harmonious co-existence of people with nature and to achieve sustainable growth, we will do our utmost to protect the global environment in all our corporate activities.

### 〔Basic Policies〕

**1. Compliance with laws and regulations and fulfillment of social responsibilities**
To observe all laws and regulations regarding environmental protection issues and to carry out our responsibilities as global corporate citizens.

**2. Reducing environmental loads**
To establish action plans for energy conservation (reduction of greenhouse gas emissions), resource conservation (conservation of materials such as paper) and waste reduction, and to strive to make continuous improvements.

**3. Establishing and maintaining environmental management systems**
To establish an environmental management system enabling each business unit to pursue voluntary environmental protection activities.

**4. Developing environmental technologies**
To contribute to the reduction of environmental load through various areas of research and development including multimedia services.

**5. Social contribution efforts**
To promote daily environmental protection efforts in coordination with citizens and government agencies.

**6. Disclosure of environmental information**
To enhance both internal and external communications through the disclosure of environmental information.

## Main Activities in 2003

Committed to constant improvement and new environmental protection initiatives, here are some of the things we accomplished in 2003 based on the "NTT Group Ecology Program 21."

● Published environmental protection activity reports
● Publicly disclosed information on our website
● Promoted environmental awareness and publicity
● Sponsored environmental events

● Prevention and early detection of soil and water pollution
● Promoted removal and proper disposal of products including PCB
● Promoted sound management and disposal of chemical substances from our labs

**Disclosure of environmental information**

**Compliance with laws and regulations and fulfillment of social responsibilities**

**Social contribution efforts**



**NTTGroup Global Environmental Charter Basic Policies**

**Reduction of environmental loads**

**Developing environmental technologies**

**Establishing and maintaining environmental management systems**

● Cooperating in project to build waterfront communities using new micro-porous material (MPM)
● Launched Mt. Fuji environmental monitoring project using cell-phone cameras and global positioning system (GPS)
● Promoted forest conservation through DoCoMo Woods
● Operation Clean Environment
● Ecology Community Plaza operations

**Prevention of global warming**
● Promoted Total Power Revolution (TPR) activities
● Reduced $CO_2$ emissions through introduction of low-pollution vehicles
● Promoted use of e-bidding system

**Waste management**
● Recycled decommissioned optical cable
● Developed long-life eco-steel telephone poles
● Reused of personal computers
● Recycled used communications and other equipment
● Recycled desktop holders for cellphones

**Paper resource management**
● Increased recycling of telephone directories with higher ratio of old paper
● Developed and put in use online large-scale geospatial data covering all Japan

● Activities based on three guidelines (Green Procurement Guidelines, Green R&D Guidelines, and Green Design Guidelines for Buildings)
● Increased the number of sites with ISO 14001 certification
● Risk management
● Employee education and awareness surveys
● Environmental accounting

● Developed solar-powered mobile power source
● Developed environmentally friendly cable deployment method
● Developed compact, power-efficient optical modulator
● Analyzed IT service ripple effects
● R&D on IT services that reduce the environmental load