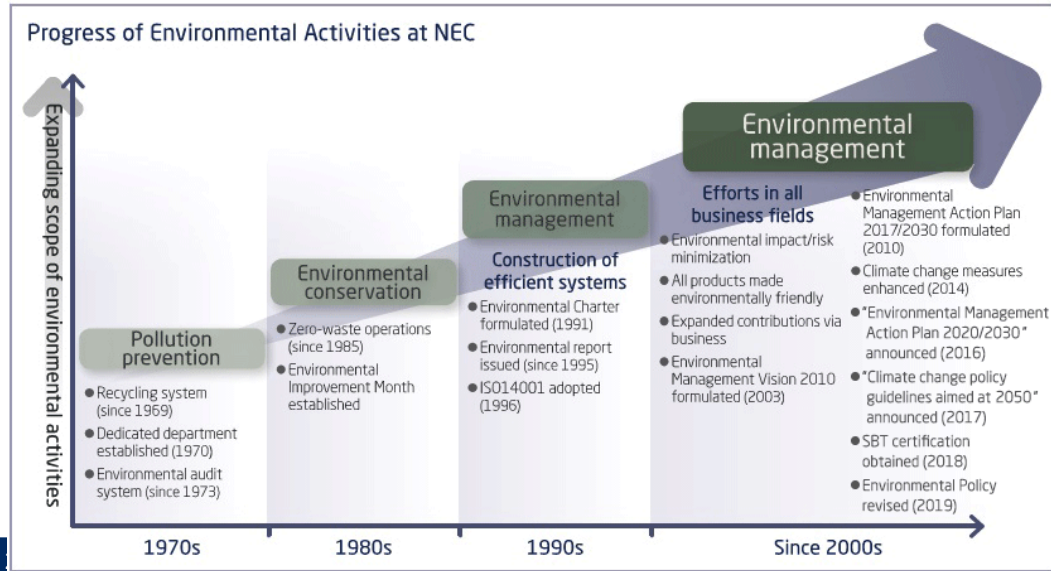


# Milestones in Environmental Management

The environmental activities of NEC started in earnest in 1970, when a dedicated environmental organization was established. The president at the time had a strong awareness of corporate responsibility regarding the environment and declared both internally and to the public that NEC would actively pursue the thing it should do for the environment. That was an advanced idea for a company at the time. Since then, NEC has engaged in a wide range of activities while always looking one step ahead.

The NEC Environmental Management Vision 2010 announced in 2003 set forth a meaningful environmental vision. Since then, NEC has promoted the contributions that ICT can make to reducing the CO<sub>2</sub> emissions of society as a whole. In 2009, this vision was expanded to include efforts to protect ecosystems, biodiversity, and the recycling and conservation of resources. Moreover, 2014 saw the formulation of long-term goals to enhance climate-change measures. We are therefore proceeding with environmental management that is an inseparable part of our business.



# Start of Pollution Prevention Measures: 1970s

NEC Management	Decade	Trends in Environmentalism	
		NEC Efforts	Historical Events
<p>Adopted division system (1961)  Worldwide Expansion: 1964 and onwards  Began manufacture of integrated circuits (1964)  Began manufacture of color cathode ray tubes (1967)  NEC de Mexico and NEC do Brazil established, paving the way for additional overseas manufacturing plants (1968)  Established first subsidiary, NEC Kagoshima, Ltd. (1969)</p>	1960s	<p>Start of Pollution Prevention Measures: 1969 and onwards Then-President Kobayashi (later honorable chairman and advisor) recognized the importance of environmental management and directed the establishment of internal structures to address the matter (1969)</p>	<p>The World Wildlife Fund founded (currently World Wildlife Fund for Nature, WWF) (1961)  Basic Law for Environmental Pollution Control established (1967)  Clean Air Law established (1968)  Noise Control Law established (1968)</p>
<p>Received order from international consortium to build microcircuit apparatus for Iran (1970)  Installed spade apparatus for communications use at Communications Satellite Corporation (1971)  Installed a movable earth station in Beijing (1972)  Released NEAC System 100 office computer (1973)  Received "Emmy Award" for frame synchronizer for use by commercial TV stations (1975)  TK-80 microcomputer training kit released (1976)  The "C&amp;C" Era: 1977 and onwards  PC-8000 series personal computer released (1979)</p>	1970s	<p>Director of pollution prevention and environmental management appointed. "Pollution Prevention &amp; Environmental Management Department" established at head office. "Pollution Prevention &amp; Environmental Management Centers" established at each facility (1970)  "Company Regulations for Pollution Prevention and Environmental Management" established (1971)  Establishment of "First Pollution Prevention &amp; Environmental Management Central Committee" (later, Eco-management Committee [1992-1999]; currently Environmental Management Committee) (1972)  Eco-audits initiated (1973)  "Environmental Improvement Month" established in line with "Earth Environment Day" (1975)</p>	<p>Clean Water Law enacted (1970)  Waste Disposal and Public Cleaning Law (Waste Disposal Law) established (1970)  Environment Agency established (1971)  Club of Rome released "The Limits to Growth" (1972)  United Nations Conference on the Human Environment held in Stockholm ("Declaration of the United Nations Conference on the Human Environment") (1972)  First governmental white paper on the environment released (1972)  1st oil crisis (1973)  Vibration Control Law established (1976)  2nd oil crisis (1979)</p>

# Rise in Environmental Conservation Activities: 1980s

NEC Management	Decade	Trends in Environmentalism	
		NEC Efforts	Historical Events
<p>Agreement reached with Honeywell Inc., giving Honeywell the distribution and manufacturing rights in the U.S. for the NEC System 1000 giant mainframe (1984)</p> <p>Established C&amp;C Advancement Foundation (1985)</p> <p>NEC's SX-2 supercomputer rated as the world's fastest (1985)</p> <p>Honeywell's computer operations restructured into a joint venture, Honeywell Bull, Inc., presently Bull HN Information Systems, Inc., with Honeywell, Bull, and NEC as partners (1987)</p> <p>ISDN-compatible communications devices Aterm 100 &amp; 200 released (1988)</p> <p>TFT color liquid crystal laptop PC released (1989)</p>	1980s	<p>Rise in Environmental Conservation Activities: 1980 and onwards</p> <p>Establishment of "Environment News" publication (1980)</p> <p>Establishment of "Environmental Improvement Symbol" (1981)</p> <p>Initiation of "Zero Waste Movement" (1985)</p>	<p>Convention concerning Prevention of Marine Pollution by Dumping Waste (the London Convention) came into effect (1980)</p> <p>Law concerning Special Measures for Preservation of Lake Water Quality established (1981)</p> <p>Montreal Protocol on Substances that Deplete the Ozone Layer adopted (1987)</p> <p>Law concerning Pollution-Related Health Damage Compensation and Other Measures revised (1987)</p> <p>Vienna Convention for the Protection of the Ozone Layer (Vienna Convention) came into effect (1989)</p> <p>Law concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures instituted (1989)</p> <p>Exxon Valdez oil tanker ran aground in Alaska, causing a massive oil spill (1989)</p>

# Gain in Momentum of Environmental Management Activities: 1990s

NEC Management	Decade	Trends in Environmentalism	
		NEC Efforts	Historical Events
<p>C&amp;C for Human Potential: 1990 and onwards New corporate philosophy and management commitments released (1990)</p> <p>A unique graphite crystal discovered and named a "carbon nanotube" (1991)</p> <p>Formulation of new corporate vision and introduction of new CI (1992)</p> <p>Cellular phone "Digital Mover" released (1993)</p> <p>SX-4 series, the world's fastest supercomputer, released (1994)</p> <p>World's first prototype 1 G-bit DRAM unveiled (1995)</p> <p>World's first 256 M-bit synchronous DRAM developed (1996)</p> <p>Semiconductor Group honored with the first Japan Quality Award (1997)</p> <p>SX-5 series, the world's fastest supercomputer, released (1998)</p> <p>A folding handset, N501i HYPER, released for i-mode cellular phone service (1999)</p>	1990s	<p>Gain in Momentum of Environmental Management Activities: 1990 and onwards "NEC Environmental Charter" established (1991)</p> <p>Ozone-depleting substances abolished (except in refrigerant fire extinguishers) (1993)</p> <p>Voluntary environmental action plan "NEC Eco Action Plan 21" publicly released (1993)</p> <p>Product Assessment Guidelines issued (1994)</p> <p>Environmental management activity report "Ecology &amp; Technology" issued (1995)</p> <p>Introduced ISO 14001 (1995)</p> <p>NEC's original environmental label "Eco Symbol" established (1998)</p> <p>"Environmental Accounting" results released (1999)</p> <p>Customer-oriented environmental forum held (1999)</p> <p>Released lead-free PC (1999)</p>	<p>Law for the Promotion of Utilization of Recycled Resources established (Recycling Law) (1991)</p> <p>United Nations Framework Convention on Climate Change (Framework Convention on Climate Change) adopted (1992)</p> <p>United Nations Conference on Environment and Development (Earth Summit) held (1992)</p> <p>Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal came into effect (1993)</p> <p>First ISO/TC 207 meeting held (1993)</p> <p>"International Energy Star Program" system started (US) (1993)</p> <p>Basic Environment Law established (1993)</p> <p>Industrial Structure Council reported its "Industrial Environment Vision" (1994)</p> <p>Law for Promotion of Sorted Collection and Recycling of Containers and Packaging (Containers and Packaging Recycling Law) adopted (1995)</p> <p>Environmental management system "ISO 14001" came into effect (1996)</p> <p>Third Conference of the Parties to the United Nations Framework Convention on Climate Change (COP3) held in Kyoto (1997)</p> <p>Environmental Impact Assessment Law established (1997)</p> <p>Law for Recycling of Specified Kinds of Home Appliances (Home Appliance Recycling Law) established (1998)</p> <p>Revised Law concerning the Rational Use of Energy enacted (1999)</p> <p>Pollutant Release and Transfer Register established (1999)</p>

# Promotion of Environmental Management: 2000s ①

NEC Management	Decade	Trends in Environmentalism	
		NEC Efforts	Historical Events
<p>Revitalization of NEC for the Next Century: 2000- In-house company system introduced and position of corporate officer created (2000)</p> <p>"The Earth Simulator", the world's fastest supercomputer used to create global-scale environmental simulation models, was completed (2001)</p> <p>Branching off from NEC Electronics (2002)</p> <p>Transition to flat management system based on business lines (2003)</p> <p>CSR promotion system and framework strengthened (2003)</p> <p>NEC Group Charter of Corporate Behavior/Code of Conduct formulation (2004)</p> <p>Development of slim type secondary cells with fast charging and flexible features (2005)</p> <p>Development of the continental area observation technology satellite "Daichi" (2006)</p> <p>The first issue of NEC Annual Report published (2007)</p> <p>NEC Group Vision/Values formulation (2008)</p> <p>Development of the observation sensor (TANSO) to be installed in "Ibuki", a greenhouse gas observation satellite (2009)</p> <p>Introduction of the new management system (2009)</p>	2000s	<p>Promotion of Environmental Management: 2000 and onwards First Eco-Mark given to Laptop PC (2000)</p> <p>1st Environmental Management Conference held (2000)</p> <p>Company designated as wide-area recycler of waste (2001)</p> <p>Zero emissions achieved at all manufacturing subsidiaries in the NEC Group (2002)</p> <p>Forestation operations started on Kangaroo Island in Australia (2002)</p> <p>NEC Environmental Management Vision 2010 announced (2003)</p> <p>NEC Refreshed PC business started (2003)</p> <p>Home PC recycling started (2003)</p> <p>Environmental governance reinforced (2003)</p> <p>NEC Rice Paddy Building Project for employee environmental awareness started (2004)</p> <p>ISO certification acquired by all domestic manufacturing and software companies (2004)</p> <p>NEC Joins Global Compact (2005)</p> <p>Start of Software/Service Eco Symbol System (2005)</p> <p>Joined the National Campaign for Tackling Global Warming "Team Minus 6%" (2005)</p> <p>NEC started issuing half-yearly and quarterly environmental activity reports (2005)</p> <p>Global Warming Solutions launched (2005)</p> <p>Biglobe environmental Web site "Biglobe Eco" opened (2005)</p> <p>Eco Cellular Phone launched (2006)</p> <p>3R Business Support Section established (2006)</p> <p>NEC Personal Products are the first manufactured in the industry to obtain the approval of the "ECO FIRST System" by the Ministry of the Environment (2008)</p> <p>The Eco Symbol Star System started (2008)</p> <p>The power saving server "ECO CENTER" is released (2008)</p> <p>The new Environment/Energy Business Promotion Division is established (2009)</p> <p>Announcement of entirely eco-friendly office concept (2009)</p> <p>Announcement of entirely eco-friendly data center concept (2009)</p> <p>Launch of personal computer made using flame-retardant bioplastic (2010)</p> <p>Creation of Smart Energy and Green Business Operations Unit (2010)</p>	<p>Basic Law for Establishing a Recycling-based Society and Law for Promoting Green Purchasing prepared (2000)</p> <p>Seventh Conference of the Parties to the United Nations Framework Convention on Climate Change (COP7) held (2001)</p> <p>Home Appliance Recycling Law went into effect (2001)</p> <p>Kyoto Protocol ratified (2002)</p> <p>Eighth United Nations Framework Convention on Climate Change (COP8) held (2002)</p> <p>PC Recycling Law went into effect (2003)</p> <p>Ninth United Nations Framework Convention on Climate Change (COP9) held (2003)</p> <p>Tenth United Nations Framework Convention on Climate Change (COP10) held (2004)</p> <p>Kyoto Protocol went into effect (2004)</p> <p>National Campaign for Tackling Global Warming "Team Minus 6%" (2005)</p> <p>Eleventh United Nations Framework Convention on Climate Change (COP11) held (2005)</p> <p>First Kyoto Protocol United Nations Convention (MOP1) held (2005)</p> <p>The 12th Conference on the Framework Convention of Climate Change (COP12) held (2006)</p> <p>The Second Kyoto Protocol Conference (COP/MOP2) held (2006)</p> <p>The 13th Conference on the Framework Convention of Climate Change (COP13) held (2007)</p> <p>The third Kyoto Protocol Conference (COP/MOP3) held (2006) (2007)</p> <p>The 14th Conference on the Framework Convention of Climate Change (COP14) held (2008)</p> <p>The 34th G8 Summit held (2008)</p> <p>A trial of domestic emission transactions established (2008)</p> <p>The announcement of a declaration on biodiversity by the Japan Economic Federation (2009)</p> <p>A revision of the Energy Saving Act conducted (2009)</p> <p>Enforcement of the Tokyo Environmental Protection Bylaw established (2009)</p> <p>Commencement of the ECO POINT system begun (2009)</p> <p>Fifteenth Session of the Conference of Parties to the United Nations Framework Convention on Climate Change (COP15) held in Copenhagen (2009)</p>

# Promotion of Environmental Management: 2000s ②

NEC Management	Decade	Trends in Environmentalism	
		NEC Efforts	Historical Events
<p>Creation of Smart Energy and Green Business Operations Unit (2010)</p> <p>Creation of Smart City Promotion Office (2011)</p> <p>Creation of Revival Support Promotion Office (2011)</p> <p>Creation of Smart Energy Business Operations Unit (2012)</p> <p>Strengthening of management structure (2013)</p> <p>Establishment of NEC Energy Solutions, an energy storage system company (2014)</p>	2010s	<p>Provisioning of an energy-saving support service that uses ICT was started as an "Entirely eco-friendly" solution (2010)</p> <p>Contribution through "Stable supply of energy," "Electric vehicle (EV) charging infrastructure," "Smart houses," and "Smart buildings" is promoted aiming for a "New energy society" (2010)</p> <p>"NEC Group Environmental Management Action Plan 2017/2030" is announced (2010)</p> <p>"NEC Group Principles for Conserving Biodiversity" is established (2010)</p> <p>Household energy storage system is released (2011)</p> <p>Models that can operate at 40°C added to lineup of energy-saving Express5800 series servers (2012)</p> <p>Launched first-in-Japan energy service for households based on storage battery rental (2013) Released Scope 3 emissions (2013)</p> <p>Formulation of new environmental management goals based on contribution to actions addressing climate change through NEC's Solutions for Society business (2014)</p> <p>Enhancement of durability of NeCycle® bioplastic (2014)</p> <p>A booklet "Responses to Climate Change - Supported by ICT" published (2014)</p> <p>"Environmental Management Action Plan 2020/2030" announced (2016)</p> <p>The first ESG IR meeting (Environmental IR small meeting) held (2016)</p> <p>Joining "COOL CHOICE", the National Movement for a global warming measure (2016)</p> <p>Development of non-edible-plant-based bioplastic featuring the elegance of traditional Japanese lacquerware (2016)</p> <p>"Climate change policy guidelines aimed at 2050" announced (2017)</p> <p>Replacement of chemical substances in product management system with new software supporting "chemSHERPA" (2017)</p>	<p>The Tokyo Metropolitan Government imposed an obligation on large business establishments to reduce CO<sub>2</sub> emissions by enforcing the Tokyo Metropolitan Environmental Security Ordinance (2010)</p> <p>Nissan Motor has sold an electric vehicle (EV) "LEAF" (2010)</p> <p>The 16th Conference of the Parties to the United Nations Framework Convention on Climate Change (COP16) held (2010)</p> <p>The 10th Conference of the Parties to the Convention on Biological Diversity (COP10) held (2010)</p> <p>Rolling blackouts were carried out as a result of the Great East Japan Earthquake and the nuclear plant accident (2011)</p> <p>The 17th Conference of the Parties to the United Nations Framework Convention on Climate Change (COP17) held (2011)</p> <p>COP18 (18th Session of the Conference of the Parties to the United Nations Framework Convention on Climate Change) held (2012)</p> <p>COP11 (11th Meeting of the Conference of the Parties on Biodiversity) held (2012)</p> <p>First commitment period under the Kyoto Protocol ended (2012)</p> <p>Parties to the Cancun agreement commenced voluntary reductions in emissions of global warming gases (2012)</p> <p>Feed-in tariff scheme for renewable energy launched (2012)</p> <p>Launched the "Green Power Project" (2013)</p> <p>Revision of the Act on the Rational Use of Energy, obligating electric power demand leveling (daytime peak shift) (2013)</p> <p>Publication of Fifth Assessment Report of the United Nations Intergovernmental Panel on Climate Change (IPCC) (2014)</p> <p>Adoption of the Sustainable Development Goals (SDGs) (2015)</p> <p>The 21st United Nations Conference on Climate Change (COP21) adopted the Paris Agreement (2015)</p> <p>Paris Agreement came into effect (2016)</p> <p>G7 Ise-Shima Summit held (2016)</p> <p>22nd Conference on the Framework Convention of Climate Change (COP22) held (2016)</p> <p>23rd Conference on the Framework Convention of Climate Change (COP23) held (2017)</p>

# Promotion of Environmental Management: 2000s ③

NEC Management	Decade	Trends in Environmentalism	
		NEC Efforts	Historical Events
<p>Reorganized Japan Aviation Electronics Industry, Ltd. into a subsidiary (2017)</p> <p>“Materiality” selected as a priority management theme from an ESG perspective (2018)</p> <p>Newly established the Digital Trust Business Strategy Division (2018)</p>	2010s	<p>Achieved advanced scratch resistance and make style printing on luxury lacquerware tone bioplastic (2018)</p> <p>Agreed to TCFD (2018)</p> <p>Participated in JCI (2018)</p> <p>NEC Group’s greenhouse gas emission reduction target was approved by the Science Based Targets initiative (2018)</p> <p>Reformulated the Environmental Charter into the Environmental Policy (2019)</p>	<p>The Financial Stability Board (FSB) established the Task Force on Climate-related Financial Disclosures (TCFD) (2016)</p> <p>TCFD announced proposal (2017)</p> <p>Japan Climate Initiative (JCI) launched (2018)</p> <p>The Intergovernmental Panel on Climate Change (IPCC) announced the Special Report on Global Warming of 1.5°C (2018)</p> <p>The 24th Conference of the Parties to the United Nations Framework</p>