

## Ranked First in Eco University Ranking

Nagoya University won overall first place in the third Eco University Ranking, sponsored by Eco-League (Japan Youth Ecology League). The Eco University Ranking recognizes universities that are actively implementing measures to fight global warming. We won first place for our various environmental efforts and outstanding performance, including ESCO projects, significant reduction in CO<sub>2</sub> emissions compared to the previous year, Environment Circle activities and activities of the Energy Management Research and Review Group. It is especially honorable for us to be ranked first in the category of universities that provide a model for other universities.



## Awarded ECCJ Chairman Prize in Fiscal 2011 Energy Conservation Grand Prize

In the Fiscal 2011 Energy Conservation Grand Prize (sponsored by the Energy Conservation Center, Japan [ECCJ] and supported by the Ministry of Economy, Trade and Industry of Japan), Nagoya University was awarded the ECCJ Chairman Prize in the energy-saving activities category, in recognition of its outstanding energy-saving initiatives aimed at contributing to increased energy conservation awareness and increased use of energy-efficient products, which are being implemented under the "Integrated Management-type ESCO Project at Nagoya University Hospital" (a joint project that the University is implementing in collaboration with Mitsubishi UFJ Lease & Finance Co., Ltd., Sanki Engineering Co., Ltd., and Toyota Enterprise Inc.).



## Wins Energy-Saving Lighting Design Award 2011, and 2011 Good Lighting Award (Excellent Facility Prize)

The Central Building of the Graduate School of Engineering/Particles and the Universe Research Building (E & S Building), which is illuminated entirely with LED lights, won the Excellent Project Award in the public facility and complex category of the Energy-Saving Lighting Design Awards 2011 (sponsored by the Ministry of the Environment). The E & S Building also received the Good Lighting Award (Excellent Facility Prize) at the Illuminating Engineering Institute of Japan (IEIJ) Conference.

The E & S Building has been highly regarded as a high-quality, well-designed and energy efficient facility, equipped with LED lights that not only provide adequate illumination, but create a stylish and comfortable environment.

In the Energy-Saving Lighting Design Awards 2011, outdoor LED lighting on the Higashiyama Campus also received the Excellent Project Award in the Town, District and Other category.

## Urgent Statement Regarding Energy Use

The Great East Japan Earthquake, which occurred on March 11, 2011, not only caused huge casualties and material damage, but also greatly impacted Japanese people's values. We are now required to change our lifestyle, from one that consumes vast amounts of energy to a more energy-efficient and sustainable one that requires each of us to have strong energy-saving awareness and sometimes put up with inconveniences. Nagoya University has set a high target for CO<sub>2</sub> emissions reduction and has been working very hard toward it. However, considering the situation in Japan after the earthquake, we have reaffirmed the need to achieve CO<sub>2</sub> emissions reductions exceeding the set target and to clearly set out our energy use policy and concrete action plans for the near future. On July 8, 2011, Nagoya University's president issued an urgent statement regarding energy use, aiming to reduce overall energy consumption and shave peak demand.

## Action Plan for CO<sub>2</sub> Emissions Reduction

In the Nagoya University Campus Master Plan 2010, Nagoya University announced a combined target of reduced CO<sub>2</sub> emissions from the Higashiyama, Tsurumai and Daiko campuses by more than 20% by 2014 from the 2005 level, as well as an action plan to achieve that target. In fiscal 2011, the second year of the action plan, CO<sub>2</sub> emissions decreased by 15% compared to fiscal 2005.

## Higashiyama Campus Working Toward Complete Ban on Smoking

To protect non-smokers from passive smoking, the Higashiyama Campus is working toward a complete ban on smoking. In fiscal 2011, after careful examination, we designated 30 outdoor locations on campus where nonsmokers and minors are less likely to be exposed to secondhand smoke.

## Environmental Circle "Song of Earth"

The Nagoya University Environmental Circle "Song of Earth" was formed in 1994 by a dozen or so students who were interested in environmental activities. The Circle holds weekly meetings to discuss and plan various environmental activities. In fiscal 2011, the Circle implemented a wider variety of activities than the previous year.



Michinari Hamaguchi  
President of Nagoya University

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## Message from the President

First of all, on behalf of Nagoya University, I would like to extend our deepest sympathy to all those affected by the Great East Japan Earthquake. Since March 11, 2011, we have provided various support for relief and reconstruction efforts. We will continue to go all out to assist affected areas to help people fully recover from the disaster.

Message from The Great East Japan Earthquake has provided many valuable lessons. The Earthquake has also caused ripples even at Nagoya University, which is far away from the epicenter. For instance, to check the safety of our students and faculty members, we put into operation our Safety Confirmation System, which was developed as part of our preparation for a potential Tokai earthquake. The actual operation of the System has revealed many problems. Moreover, by learning about the damage suffered by universities and technical colleges in the affected areas, and the disaster response measures actually taken and their consequences, we recognized the need to urgently review our own disaster prevention and response measures. Increased reliance on thermal power generation due to the shutdown of the Hamaoka Nuclear Power Station of Chubu Electric Power Co. and subsequent suspension of other nuclear power facilities will not only hamper our efforts to achieve our energy saving and CO<sub>2</sub> emissions reduction targets, but also affect Japan's ability to achieve its international pledge to reduce greenhouse gas emissions.

The reconstruction process in the affected areas still has a long way to go, and it is vitally important to bring together the knowledge and wisdom in all academic fields—natural sciences, social sciences and humanities, ranging from fundamental sciences such as nuclear physics and geosciences, to urban design, law and institutional design, and psychology of victims. As a core comprehensive university in the Tokai-Hokuriku region, where there are many outstanding researchers and educators in the above-mentioned fields, Nagoya University is committed to serving as a center of knowledge in an extensive range of academic disciplines and research fields. In the Hamaguchi Plan 2009, which I announced when I took office as president of the University, I summarized the direction the University should take during my tenure with the phrase, "From 名古屋大学 to Nagoya University." The Hamaguchi Plan also set out the environmental initiatives to be implemented, including "promotion of an eco-friendly campus project," "law-compliant management of chemical and radioactive substances," and "strict implementation of disaster measures, legal compliance and risk management." Now that half of my tenure has passed, it is high time to evaluate the progress of the Plan and implement necessary course corrections. To help people suffering from natural or manmade disasters around the world and restore the destroyed environment, Nagoya University intends to more actively communicate to the world its achievements in research and other activities aimed at reconstruction of the earthquake-affected areas. I believe that by actively pursuing global activities, Nagoya University can contribute to putting an end to Japan's long-term recession, referred to as the "Lost 20 Years" and play a leading role in building the world of the future.

July 2012

## Environmental Policy

The fundamental principles of scholarly activity for Nagoya University are set down in the Nagoya University Academic Charter. Within the Charter, it is written that "Based on the academic traditions of freedom and generosity, our mission is to contribute to the happiness and well-being of human beings, through research and education related to humanity, society and nature. The development of civilization and the current activities of human beings will have a great influence on future generations. Therefore, based on our Charter, and in order to fulfill our role in society and to contribute to the harmonious development of humanity and nature through research and education that are rich in imaginative power, we hereby set the following fundamental principle and policies of Nagoya University regarding the environment.

### 1 Fundamental Principle

Recognizing that human beings have created a vast diversity of cultures and values, we will, for the benefit of future generations, consider which aspects should be truly respected, and contribute to the realization of a society that can maintain such traditions and values.

### 2 Basic Policies

#### Basic Position

(1) In order to investigate the causes of environmental problems, and find suitable means for dealing with them, all academic fields will develop educational and research programs that aim toward sustainable development.

#### Environmental Management

(2) In order to plan further improvements in environmental management, we will (together with related parties) consider what attitudes and actions are necessary for universities, put them into practice, and further pursue them.

#### Environmental Performance

(3) Recognizing (together with related parties) that our own activities involve environmental effects and responsibilities, we will work to find comprehensive and systematic solutions that will reduce our environmental impact, and enable us to take preventive measures.

#### Social Responsibility and Environmental Communication

(4) With respect to laws and ethics, we will work to enhance trust from local and international communities, by making information available publicly, and through communication and mutual understanding with related parties.

(Approved by the President on August 1, 2005)  
(Revised on October 12, 2010)

# Environmental Report Summary [Continuing Improvement in Environmental Activities]

Nagoya University continues university-wide environment-related activities. These activities are summarized below.

Red text refers to awards received.

🟢 = Improved over previous year  
🔴 = Further improvement needed

Report Period	Environmental Management in General	Anti-Global Warming & Energy-Conservation Measures	Waste Management Measures	Chemical Substance Management	Community & Student Relations																																		
<b>FY2007</b> 	<ul style="list-style-type: none"> <li>Self-assessment of Environmental Report started. (Aug–Sep 2008)</li> <li>Environmental accounting report started. (Sep 2007)</li> <li>Authorized as “Nagoya City Eco Business Establishment” (Oct 2007)</li> <li><b>Received Prize of Minister of Economy, Trade and Industry Award for Successful Case of Energy Conservation in Factories &amp; Buildings FY2007 (Jan 2008)</b></li> <li><b>Received Excellent Prize, Aichi Environmental Award 2008 (Mar 2008)</b></li> </ul>	 <p>Poster for Light Clothing Campaign 2008 Energy Conservation Sticker</p> <table border="1"> <thead> <tr> <th colspan="3">Greenhouse Gas Emissions (CO<sub>2</sub> equivalent, compared to 2006)</th> </tr> <tr> <th>FY2007 Results</th> <th></th> <th>Evaluation</th> </tr> </thead> <tbody> <tr> <td>Higashiyama</td> <td>⇒ No change</td> <td>🟢</td> </tr> <tr> <td>Tsurumai</td> <td>⇒ 10.7% ↑</td> <td>🔴</td> </tr> <tr> <td>Daiko</td> <td>⇒ 0.9% ↓</td> <td>🟢</td> </tr> </tbody> </table>	Greenhouse Gas Emissions (CO <sub>2</sub> equivalent, compared to 2006)			FY2007 Results		Evaluation	Higashiyama	⇒ No change	🟢	Tsurumai	⇒ 10.7% ↑	🔴	Daiko	⇒ 0.9% ↓	🟢	<ul style="list-style-type: none"> <li><b>Honored by Council of Institutional Environment Safety for appropriate treatment of waste from experiments. (June 2007)</b></li> <li>Waste Treatment Handler Training held. (June 2007)</li> </ul> <table border="1"> <thead> <tr> <th colspan="3">Combustible/Non-combustible Waste Amount (compared to previous year)</th> </tr> <tr> <th>FY2007 Results</th> <th></th> <th>Evaluation</th> </tr> </thead> <tbody> <tr> <td>Higashiyama</td> <td>⇒ 9.5% ↓</td> <td>🟢</td> </tr> <tr> <td>Tsurumai</td> <td>⇒ 1.9% ↓</td> <td>🟢</td> </tr> <tr> <td>Daiko</td> <td>⇒ 3.3% ↑</td> <td>🔴</td> </tr> </tbody> </table>	Combustible/Non-combustible Waste Amount (compared to previous year)			FY2007 Results		Evaluation	Higashiyama	⇒ 9.5% ↓	🟢	Tsurumai	⇒ 1.9% ↓	🟢	Daiko	⇒ 3.3% ↑	🔴	<ul style="list-style-type: none"> <li>“Nagoya University Chemical Substance Management Regulations” enacted. (Apr 2008)</li> <li>Centralized treatment of “unwanted chemical agents” started. (2007–2008)</li> <li>Management System of Chemical Substances (MaCS-NU) User Training held. (June 2007)</li> <li>300 laboratories registered approx. 110,000 chemicals.</li> </ul> <table border="1"> <thead> <tr> <th>FY2007 Results</th> <th>Evaluation</th> </tr> </thead> <tbody> <tr> <td>Registration ratio ⇒ 74%</td> <td>🔴</td> </tr> </tbody> </table>	FY2007 Results	Evaluation	Registration ratio ⇒ 74%	🔴	<ul style="list-style-type: none"> <li>Environmental Report education and student questionnaire started. (Planned to be conducted every year from FY2007)</li> <li>Lecture “Challenges to Environmental Problems” opened to the public. (2007)</li> <li>Collaboration with “Nagoya Open University of the Environment”</li> </ul>
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<b>FY2009</b> 	<ul style="list-style-type: none"> <li>Action Plan for CO<sub>2</sub> Emissions Reduction (20% reduction from 2005 level by 2014)</li> <li><b>“Excellent Engineer of Energy Conservation, Chubu Region Electricity Usage Rationalization Committee Chairperson’s Award 2009” received.</b></li> <li><b>“Prize for Public Entity, Green Reporting Award” received.</b> (Sponsored by Toyo Keizai Inc., Green Reporting Forum)</li> </ul>	<ul style="list-style-type: none"> <li>ESCO projects conducted at Tsurumai Campus.</li> <li>Energy-Saving patrol implemented.</li> </ul>  <table border="1"> <thead> <tr> <th colspan="3">Greenhouse Gas Emissions (CO<sub>2</sub> equivalent, compared to 2006)</th> </tr> <tr> <th>FY2009 Results</th> <th></th> <th>Evaluation</th> </tr> </thead> <tbody> <tr> <td>Higashiyama</td> <td>⇒ 14.1% ↓</td> <td>🟢</td> </tr> <tr> <td>Tsurumai</td> <td>⇒ 2.8% ↑</td> <td>🔴</td> </tr> <tr> <td>Daiko</td> <td>⇒ 8.8% ↓</td> <td>🟢</td> </tr> </tbody> </table>	Greenhouse Gas Emissions (CO <sub>2</sub> equivalent, compared to 2006)			FY2009 Results		Evaluation	Higashiyama	⇒ 14.1% ↓	🟢	Tsurumai	⇒ 2.8% ↑	🔴	Daiko	⇒ 8.8% ↓	🟢	<ul style="list-style-type: none"> <li>Waste Treatment Handler Training held. (June 2009)</li> </ul> <table border="1"> <thead> <tr> <th colspan="3">Combustible/Non-combustible Waste Amount (compared to previous year)</th> </tr> <tr> <th>FY2009 Results</th> <th></th> <th>Evaluation</th> </tr> </thead> <tbody> <tr> <td>Higashiyama</td> <td>⇒ 19.8% ↓</td> <td>🟢</td> </tr> <tr> <td>Tsurumai</td> <td>⇒ 2.0% ↑</td> <td>🔴</td> </tr> <tr> <td>Daiko</td> <td>⇒ 14.0% ↑</td> <td>🔴</td> </tr> </tbody> </table>	Combustible/Non-combustible Waste Amount (compared to previous year)			FY2009 Results		Evaluation	Higashiyama	⇒ 19.8% ↓	🟢	Tsurumai	⇒ 2.0% ↑	🔴	Daiko	⇒ 14.0% ↑	🔴	<ul style="list-style-type: none"> <li>Management System of Chemical Substances (MaCS-NU) strengthened.</li> <li>Asbestos treatment for all relevant facilities at the University completed. (Mar 2010)</li> <li>Implementation of measures to improve work environment at Tsurumai Campus launched.</li> </ul> <table border="1"> <thead> <tr> <th>FY2009 Results</th> <th>Evaluation</th> </tr> </thead> <tbody> <tr> <td>Registration ratio ⇒ 63%</td> <td>🔴</td> </tr> </tbody> </table>	FY2009 Results	Evaluation	Registration ratio ⇒ 63%	🔴	<ul style="list-style-type: none"> <li>“ECO LABO” Project (Meichari Project 2009)</li> <li>Small home appliance collection program implemented.</li> <li>Daiko Campus Cleanup (June 2009)</li> <li>Noise control measures (installation of sound-proof panels) implemented.</li> </ul>
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<b>FY2010</b> 	<ul style="list-style-type: none"> <li>Environmental policy revised. The new environmental policy comprises four basic components: Basic Position, Environmental Management, Environmental Performance, and Social Responsibility &amp; Environmental Communication.</li> <li>The University’s environmental efforts are presented in separate sections according to each component of the Basic Policies.</li> <li>A list of educational and research activities related to the environment created.</li> </ul>	<ul style="list-style-type: none"> <li>Results of the University Hospital ESCO projects conducted at Tsurumai Campus: 7,207 tons of CO<sub>2</sub> emissions reduced.</li> <li>Energy-Saving patrol implemented.</li> </ul> <table border="1"> <thead> <tr> <th colspan="3">Greenhouse Gas Emissions (CO<sub>2</sub> equivalent, compared to 2009)</th> </tr> <tr> <th>FY2010 Results</th> <th></th> <th>Evaluation</th> </tr> </thead> <tbody> <tr> <td>Higashiyama</td> <td>⇒ 9.5% ↑</td> <td>🔴</td> </tr> <tr> <td>Tsurumai</td> <td>⇒ 21.1% ↓</td> <td>🟢</td> </tr> <tr> <td>Daiko</td> <td>⇒ 18.4% ↑</td> <td>🔴</td> </tr> </tbody> </table>	Greenhouse Gas Emissions (CO <sub>2</sub> equivalent, compared to 2009)			FY2010 Results		Evaluation	Higashiyama	⇒ 9.5% ↑	🔴	Tsurumai	⇒ 21.1% ↓	🟢	Daiko	⇒ 18.4% ↑	🔴	<ul style="list-style-type: none"> <li>Waste Treatment Handler Training held. (June 2010)</li> </ul> <table border="1"> <thead> <tr> <th colspan="3">Combustible/Non-combustible Waste Amount (compared to previous year)</th> </tr> <tr> <th>FY2010 Results</th> <th></th> <th>Evaluation</th> </tr> </thead> <tbody> <tr> <td>Higashiyama</td> <td>⇒ 3.0% ↓</td> <td>🟢</td> </tr> <tr> <td>Tsurumai</td> <td>⇒ 6.3% ↑</td> <td>🔴</td> </tr> <tr> <td>Daiko</td> <td>⇒ 30.0% ↑</td> <td>🔴</td> </tr> </tbody> </table>	Combustible/Non-combustible Waste Amount (compared to previous year)			FY2010 Results		Evaluation	Higashiyama	⇒ 3.0% ↓	🟢	Tsurumai	⇒ 6.3% ↑	🔴	Daiko	⇒ 30.0% ↑	🔴	<ul style="list-style-type: none"> <li>Management System of Chemical Substances (MaCS-NU) strengthened.</li> <li>System for chemical substance registration at time of delivery introduced. (May 2010)</li> </ul> <table border="1"> <thead> <tr> <th>FY2010 Results</th> <th>Evaluation</th> </tr> </thead> <tbody> <tr> <td>Registration ratio ⇒ 100%</td> <td>🟢</td> </tr> </tbody> </table>	FY2010 Results	Evaluation	Registration ratio ⇒ 100%	🟢	<ul style="list-style-type: none"> <li>Environmental circle “Song of Earth”</li> <li>Cooperative activities for COP10</li> </ul>  <p>Trash-collection activities</p>
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<b>FY2011</b> 	<ul style="list-style-type: none"> <li><b>Ranked first in Eco University Ranking.</b></li> <li><b>Awarded ECCJ Chairman Prize in Fiscal 2011 Energy Conservation Grand Prize.</b></li> </ul>  <p>Wins first place in the Eco University Ranking.</p>	<ul style="list-style-type: none"> <li>“Urgent Statement regarding Energy Use” was issued by the President, to further promote energy-saving measures throughout the university to address the situation following the Great East Japan Earthquake and to ask all University members for their cooperation in energy saving.</li> </ul> <table border="1"> <thead> <tr> <th colspan="3">Greenhouse Gas Emissions (CO<sub>2</sub> equivalent, compared to 2009)</th> </tr> <tr> <th>FY2011 Results</th> <th></th> <th>Evaluation</th> </tr> </thead> <tbody> <tr> <td>Higashiyama</td> <td>⇒ 5.0% ↑</td> <td>🔴</td> </tr> <tr> <td>Tsurumai</td> <td>⇒ 24.5% ↓</td> <td>🟢</td> </tr> <tr> <td>Daiko</td> <td>⇒ 22.4% ↑</td> <td>🔴</td> </tr> </tbody> </table>	Greenhouse Gas Emissions (CO <sub>2</sub> equivalent, compared to 2009)			FY2011 Results		Evaluation	Higashiyama	⇒ 5.0% ↑	🔴	Tsurumai	⇒ 24.5% ↓	🟢	Daiko	⇒ 22.4% ↑	🔴	<ul style="list-style-type: none"> <li>Waste Treatment Handler Training held. (June and December 2011)</li> </ul> <table border="1"> <thead> <tr> <th colspan="3">Combustible/Non-combustible Waste Amount (compared to previous year)</th> </tr> <tr> <th>FY2011 Results</th> <th></th> <th>Evaluation</th> </tr> </thead> <tbody> <tr> <td>Higashiyama</td> <td>⇒ 2.0% ↓</td> <td>🟢</td> </tr> <tr> <td>Tsurumai</td> <td>⇒ 1.2% ↑</td> <td>🔴</td> </tr> <tr> <td>Daiko</td> <td>⇒ 37.7% ↓</td> <td>🟢</td> </tr> </tbody> </table>	Combustible/Non-combustible Waste Amount (compared to previous year)			FY2011 Results		Evaluation	Higashiyama	⇒ 2.0% ↓	🟢	Tsurumai	⇒ 1.2% ↑	🔴	Daiko	⇒ 37.7% ↓	🟢	<ul style="list-style-type: none"> <li>Management System of Chemical Substances (MaCS-NU) strengthened.</li> <li>High-pressure gas system (MaCS-G) introduced.</li> </ul> <table border="1"> <thead> <tr> <th>FY2011 Results</th> <th>Evaluation</th> </tr> </thead> <tbody> <tr> <td>Registration ratio ⇒ 100%</td> <td>🟢</td> </tr> </tbody> </table>	FY2011 Results	Evaluation	Registration ratio ⇒ 100%	🟢	<ul style="list-style-type: none"> <li>Activities of the environmental circle “Song of Earth”</li> </ul>  <p>Flower planting campaign</p>
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## Energy-Saving Activities Summary (2004 –)

Major energy-saving activities at Nagoya University (For building equipment-related energy-saving measures, see the list marked \* on the right.)

- Monthly energy consumption per campus and ongoing energy conservation measures published on website (2004–)
- Summer/Winter Energy-Saving Campaign and Lunchtime Lights Off Campaign (2004–)
- E-mail notice to reduce power consumption when usage is predicted to exceed the contracted capacity on Higashiyama Campus during summer time (2004–)
- Energy saving activity survey using energy saving check sheet (2005–)
- Energy saving practice ensured by appointing Energy Saving Promoters (2005–)
- Energy saving through university-wide summer break closure (2 weekdays in Aug) (2005–)
- Energy Saving Patrol (2009–)

※ Building equipment-related energy-saving measures (FY2011 results)

- Use of high-performance insulated glazing (FY2011: 1,936 m<sup>2</sup>; total FY2003–2011: 19,836 m<sup>2</sup>)
- Installation of high efficiency transformers (55.7% on Higashiyama Campus, 48.5% on Tsurumai Campus, 100% on Daiko Campus)
- Installation of exterior wall insulation, thermal barrier waterproof sheets, thermal barrier paints, etc.
- Energy efficiency measures implemented, including installation of LED lights and air-conditioning system with high-efficiency inverters, motion sensors and energy-saving circulators