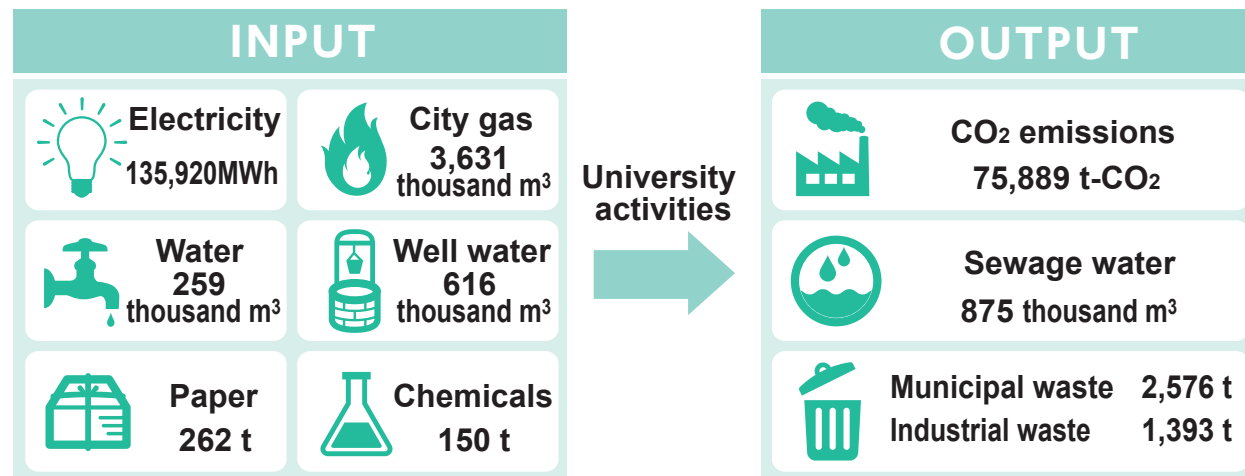


Environmental Impact by University Activities

Material Balance

The figure below shows the environmental burdens resulting from our activities (education, research, medical activities, and others) in 2015.



Energy consumption and CO₂ emission

■ Energy consumption

Operation of newly constructed five buildings and renewal of the super computer has increased electricity use. While overall energy consumption has increased by 3.5%, energy consumption per facility floor area (specific energy consumption) decreased by 1.6%, thus showing the benefits of our energy conservation activities.

■ CO₂ emissions

Despite an increase in energy consumption of 3.5%, the increase of CO₂ emission kept to a mere 0.8% because of decline of CO₂ emissions factor.



NAGOYA UNIVERSITY

Nagoya University Environmental Report 2016 (Digest)



Seiichi Matsuo
President of Nagoya University

松尾 清一

Message from the President

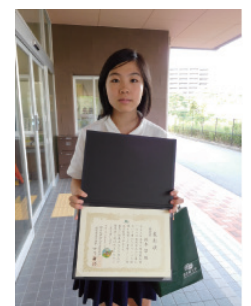
Nagoya university has a 144-year history, and has developed and promoted a wide range of educational and research programs which have borne fruitful results of world top class education and research, as well as six Nobel Prize winners from our faculty members in 21st century. When I succeeded the University President, we established NU MIRAI 2020 (Nagoya University Matsuo Initiatives for Reform, Autonomy and Innovation 2020). The initiatives take up many themes of great importance to Nagoya University Environmental Report, including "Fostering people who contribute to creating a more sustainable society by learning and challenging the world together with people of Asia", "Creating a world-class university campus.", and "Collaborating with Asia and the wider world to promote gender equality on campus". We have already achieved notable accomplishments such as the Asian Satellite Campus, the campus master plan, and the gender equality promotion programs. Above all, our efforts to improve the campus infrastructure and reduce the environmental burdens of our campus are especially noteworthy. These programs led us to only one university certified as the highest rating Platinum Certificate under the Assessment System for Sustainable Campus in Japan. We intend to continue working toward our goals through collaborations of faculties and staffs as well as through industry-government-academia partnerships and international collaborations.

Cover art competition for Environmental Report 2016

Cover art competition for Nagoya University Environmental Report 2016 was held to improve the recognition of the Report and create an opportunity to think about our environment. Though the Cover art competition is the first attempt for us, a number of wonderful photos, paintings, and graphics were submitted. After examining all the submissions, one work was selected for a cover art as a gold prize. Two other works were selected as silver prizes. Through this competition, we believe that more people in Nagoya University have an opportunity to know and read Environmental Report.



Cover art winners
Ms. Azeyanagi (Left) and Mr. Kinoshita (Right)



Cover art winner
Ms. Suzuki

Winning cover artwork



[Gold Prize]
Saki Azeyanagi
Graduate School of Science
(Featured on the cover of this Report)



[Silver Prize]
Yusuke Kinoshita
School of Letters
(Featured on P7 of this Report)



[Silver Prize]
Shiori Suzuki
Affiliated Upper Secondary school
(Featured on the back cover of the Report)

The prize winning missions are presented on page 2 and 46 of Environmental Report. Copies of Environmental Report are available at University libraries, public facilities, and local community centers. You can also look at Environmental Report online at the facility managed homepage.

The full version of the Environmental Report can be found at: http://web-honbu.jimu.nagoya-u.ac.jp/fmd/06other/guideline/e_rpt.html (in Japanese)

External Evaluation of Environmental Activities

Platinum Certificate under the Assessment System for Sustainable Campus

In February 2016, Nagoya University became the only university which won the highest rating "Platinum Certificate" under the Assessment System for Sustainable Campus conducted by the Campus Sustainability Network in Japan. The assessment consists of four areas: management, education & research, environment, and local society. Nagoya University obtained a score of 80% for environment area and close to perfect scores for the other three areas. The assessment praised the University's management system wherein faculty and staffs assess the actual conditions from a broad perspective and, establish positive cycles of improvement through the continuous self-assessment, as well as many other activities based on this approach.



Certificate



At the awarding ceremony

Nagoya University Selected among 10 World Universities by UN Women

"HeForShe" is a solidarity movement for gender equality developed by UN Women under the recognition that men's involvement and cooperation are essential. On May, 2015, Nagoya University was selected among ten world universities by UN Women. It was the only one university in Japan. UN Women praised Nagoya University for its many efforts to promote gender equality. Nagoya University continues to challenge as one of the international top runners for gender equality.



Children at the University childcare center



HeForShe event in Nagoya University

Environmental Protection Activities by Students

Environmental Protection at Meidaisai

Meidaisai is an annual university festival led by Meidaisai Planning Committee. The committee promotes a variety of environmental protection activities at Meidaisai, including sorting and collecting of trashes, using chopsticks made from thinned timbers, and holding a secondhand book fair. The committee hopes Meidaisai to be an opportunity for considering environmental protection and taking actions.



Out of trash stations in Meidaisai



Secondhand book fair

Boat club members clean up along Shonai River

Nagoya University boat club cooperates with boat clubs of neighboring universities to clean up around the boat slips along Shonai River once a year. The students are allowed to use the river for their training, so the clean-up event is also an expression of gratitude to local residents. They also care about cleanness around the river during their training.



Group photo after the clean up

Student Environmental Circle "Song of Earth"

Students joining to student environmental circle "Song of Earth" in Nagoya University think about what they can do by themselves for environment, and act for improvement of the local environment. At the same time, they promote activities to raise awareness of environmental problems. Their activities include planting flowers in Higashiyama campus, holding the market to promote reuse of goods in boarding houses, and so on. They expect that their activities make everyone in the campus comfortable and happy.



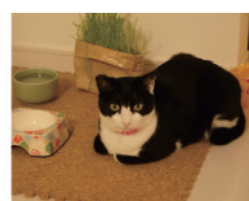
Planting flowers on campus

Student Circle "Nagoneko" for stray cats on campus

"Nagoneko" (Cat circle in Nagoya University) performs a variety of activities for stray cats living on campus, including spaying and neutering, individual management through feeding, and adoption. The circle's efforts are supported by people not only in the university but also local residents. Their activity was picked up on a local newspaper.



Individual management through feeding



A healthy cat at its adopted home

Environmental Education and Research

Practical course on environmental civil engineering for "better Higashiyama Campus"

The Department of Civil Engineering and Architecture Department, School of Engineering is offering a course called "Experimental and analytical training in civil engineering" to students in the latter term of their second year. The students are required to propose concrete projects for "better Higashiyama Campus" from four viewpoints: preventing & mitigating disasters, eco-campus, safe & comfortable movement, and landscape. At the workshop, the students found their own innovative and original ideas, and other useful information.



Working out topics in the workshop



On-campus local survey

Research on Material Transport in Atmosphere for a Better Future

Students visited the laboratory of Professor Hiromi Yamazawa of the Department of Energy Engineering and Science for an interview about his research. Professor Yamazawa researches behavior of pollutants in the environment, with a focus on global warming and radioactivity.

In the era when human population and industrial activities were much smaller in scale, the natural environment could purify pollutants released by human activities. However, the scale of modern population and industrial activities has triggered global warming, environmental pollution, and other problems. We must tell how large human activities are tolerable for the planet. To do that, we should have technologies that can estimate the effects of greenhouse gases and radioactivity emitted from human activities on the environment.



Professor Yamazawa (center)

Social Responsibility and Environmental Communication

Revitalizing the region through the "Woodism" industry

In November 2015, Professor Chisato Takenaka, Associate Professor Mariko Yamazaki, and other members of the Graduate School of Bio-agricultural Sciences led a workshop entitled "Achieving the regional revitalization by a gender equality in the "Woodism" industry: Chubu Region model". The "Woodism" industry means the entire industries from cultivation to consumption on sustainable resource "wood" (forestry, construction industries, etc.). Though we have an image of having very few women workers in the industry, there are in fact many women active there. Presentations by women working in the industry and the relevant government offices about the fascination of their jobs, balancing home and work, and their work environments were very impressive and informative for many of the attendees.



Scene from the workshop

A graduate's career: protecting the environment

Essam Yassin Mohammed, Ph.D. is a Graduate of the Graduate School of International Development in Nagoya University and currently works for issues concerning environmental protection at the International Institute for Environment and Development (IIED). In his role as an economist, he has stressed the vital importance of environmental protection from the economical viewpoint to people around the world.

When I was at Nagoya University, I joined a volunteer activity to preserve the Hasso Wetland in Inuyama City, Aichi Prefecture. By the experience, I began to think about lack of sufficient investment in protecting environments. I felt that people did not sufficiently appreciate natural resources around them, and this gave me the idea of developing a method to evaluate the economic value of environments. Showing accurately the value of environmental resources makes it easier for people to understand why it is so important to invest for environmental protections. Today, more and more governments have realized natural resources as their valuable assets and importance of invests to protect them.



Essam Yassin Mohammed



Hasso Wetland

Photo by Mr. Susumu Hayashi of Inuyama Institute for Satoyama Sciences.