

# Environmental and Energy Policies of Chiba University

Since the Industrial Revolution, humankind has developed our activities using abundant energy resources. As a result, we are now faced with various environmental problems, such as global warming, pollution by chemical substances and loss of biodiversity of living things. The environment, which is the basis of our subsistence, is threatened by environmental burdens produced by human activities. In addition, we need to continue our efforts to solve environmental, social and economic problems while leaving no one behind to achieve the Sustainable Development Goals (SDGs) adopted at the United Nations Summit. Chiba University will contribute to society with collective knowledge, acting as an education and research institution, to improve the world situation at present as well as in the future.

To this end we will take the following actions:

1. Combining natural and social sciences, we advance the practice of environmental education and research, in cooperation with our affiliated schools.
2. We promote energy and resource saving measures by cycling the use of resources, buying goods considering the environment, and protecting vegetation on our campus. We also manage the safe use of chemical substances to prevent pollution. Through these activities we realize a lush campus with a light environmental load. Above all we understand and comply with legal requirements about the environment and energy which Chiba University agrees with.
3. The environmental and energy management system is constructed and operated mainly by the students. We also encourage voluntary activities by students, aiming at a campus where a variety of environmental programs are put into practice.
4. We practice our environmental and energy management system while reflecting the opinions of the local community with reflection of their opinions.
5. We will keep energy efficiency at the top level among national universities and improve it continuously. We also support designing products and drafts of service and facilities which lead to improvement in energy performance.

Based on this policy, we establish the targets, take actions to realize them, and consider the environmental management system by auditing the actions for continuous improvement of the system. This environmental policy is documented and communicated to the people concerned, including the faculty, staff and students of Chiba University, and related business people who are usually stationed there, and released to the public in a document and on the website.



CHIBA  
UNIVERSITY

April 1, 2004 Enactment  
April 1, 2008 Second revision  
July 24, 2013 Third revision  
April 1, 2019 Fourth revision

President of Chiba University  
Nakayama Toshinori

## Sustainable Campus Made by Students





# The efforts for the achievement of Sustainable Development Goals (SDGs)

“SDGs”, which were adopted by the United Nations in 2015, are the common goals of the international community. They consist of 17 goals covering a wide range of issues, from environmental problems to gender equality, and 169 targets. Chiba University’s efforts, which are applicable to the 5 pillars of our “Environment and Energy Policy” are introduced including the relevance to each of the SDGs 17 goals below:

## 1. Environmental education and research at a university level

In addition to promoting research on the environment, we provide education related to the environment at each undergraduate and graduate school.



Botanical factory



Class



Events at the affiliated kindergarten

A list of environment-related courses can be found here



## 2. Creation of an environment-friendly “Green Campus”

We do daily energy and resource conservation, garbage separation, and safe management of chemical substances. We are also engaged in various environmental presentation activities such as greening and the 3Rs.



Composting of fallen leaves



Secondhand Book Fair



Introduction of the paper straws



Posters for energy conservation



## 3. Student-centered Creation and Operation of the Environmental Management System

Students participate actively with a training instructor and auditor on ISO as well as making minutes of the audits.



Basic Training about the management system



Internal Audit



External Assessment



Sustainability Report



## 4. Activities within the local community

We work on raising awareness of environmental consciousness by conducting environmental activities in collaboration with companies and participating in environmental events.



Community Garden



Participating in Eco-Pro event



Chiba Winter Fes



Festival in Inage



## 5. Keeping the Top-level Energy Efficiency among National Universities

We've taken measures such as raising awareness of energy saving, increasing energy efficiency of devices and utilization of natural energy.



Air Conditioner Filter Cleaning



Solar power generation



Events for energy conservation



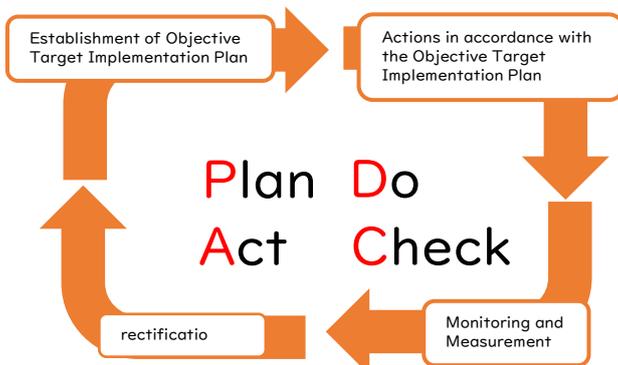
Public awareness stickers



Long term goal “Chiba University aims to achieve RE100 by 2040.”  
Chiba University declared that it aims to achieve RE100 which means that the University will use 100% renewable energy by 2040.

# Operation of Environmental Management Systems in accordance with international standards

Chiba University acquired the certification of ISO14001, which is an international standard of the environmental management system in 2005, and in 2013, it acquired the certification of ISO50001 which is an international standard of the energy management system alone at universities in Japan. (In 2019 ISO50001 was a self-declaration.)

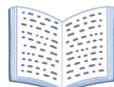


Environmental and Energy Management Systems (EMS and EnMS) are mechanisms for the continuous improvement of environmental protection and energy efficiency to manage an organisation by considering those issues. We conduct more environmentally friendly activities based on our policies by following the “PCDA cycle” .

※EMS : Environmental Management System  
EnMS : Energy Management System

## Operational effects of the environment and energy management

### Educational effects



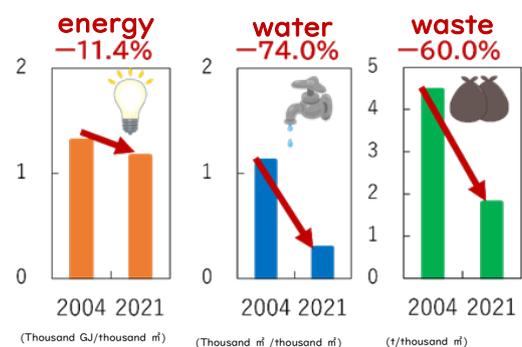
The activities that the Student Committee for EMS are engaging in are unitized. In addition, students who meet requirements, such as to work for 3 years, are awarded credits. The number of students and graduates who have these credits is 670 over 18 years up to 2022. In a questionnaire for graduates, more than 90% of them said that “The activities of the Student Committee were helpful in their work after graduating the university” .

### Environmental effects



Energy and water consumption per building floor area and amounts of general waste emissions have been significantly reduced compared to fiscal 2004 before the ISO acquisition.

#### Consumption and emissions per building floor area



### Economic effects



We succeeded in reducing costs as well as the amount of utilities used and waste. In particular, we have reduced utility costs by 140 million yen in 3 years since ISO was acquired. Electricity costs had been decreasing until 2019, but they have increased in the past 2 years. Further energy conservation is an issue.

### Social effects



25th Global Environmental Award Ministry of Education, Culture, Sports, Science and Technology Award (2016)  
Award by the Minister of the Environment for Global Warming Prevention Countermeasure activity implementation and dissemination section (2017)  
International Sustainable Campus Network Award 2017 Excellence in Student Leadership Award  
International Green Gown Awards 2017-2018 Student Engagement Award (received an incentive award in 2019)  
CAS-Net JAPAN (Campus Sustainability Network in Japan) Sustainable Campus Award Student Activities Department Received in 1st(2015) 3rd(2017) 7th(2021)  
23rd Environmental Communication Award Environmental Consideration Promotion Act Specified Business Operator Award (2019)  
The annual conference of ASCN (Asian Sustainable Campus Network) Students Activity Excellence Award (2022)

# What is the Student Committee for EMS?

It was established as an organization of Chiba University in 2003. There are about 200 students from the first grade to the third grade every year and they operate EMS and EMnS. Our organization's activities are credited as "Environmental Management System Practice", a universal education course. Also, students learn about EMS and EnMS, environmental laws and regulations, and moreover how to proceed with work, planning, and practice them in actual activities and situations. Our committee is working on raising awareness of energy saving, environmental education, activities to reduce paper, garbage and energy, greening activity, maintenance of the campus environment, preparation of environmental reports and exhibition of events both inside and outside the university. We acquired NPO corporate status in 2009. And we're working on activities such as an on-site eco class and Satoyama conservation while interacting with companies and communities.



Nishi-Chiba and Inohana campuses



Matsudo and Kashiwanoha campuses

## Environmental Management System Practice

### • Practice I

In addition to learning professional basic knowledge about the operation of EMS and EnMS and audit methods, the committee members deepen their understanding by joining various activities as committee members.

### • Practice II

Based on learning in Module I, you practice essentials for EMS and EnMS operation, such as an internal audit and external assessment. You will also play an important role in the student committee.

### • Practice III

Students who have obtained a course credit from Module 2 work for public offices and companies as an intern using their experience at Chiba University and the study of EMS operated there.



Preparation of minutes for external assessment

## Environmental and Energy Management Practitioner at Chiba University

This is an on-campus qualification which is given by the President to students who have worked for a year as a committee member after acquisition of credits of Practice II. It is useful for job hunting. It shows to society that they are students who have specialized knowledge about EMS and EnMS which has been learned through their working experience at Chiba University.



Practitioner Certification Ceremony

## Cooperation project with companies

Recently, the student committee has worked with several companies and it has been a valuable experience for students. The committee "Hang a rainbow from Chiba to the future ~Chiba university X Keiyo Bank ecological project ~" started in 2017 for achieving SDGs and community's enlightening of environmental awareness. Students' opportunities to study society through these activities are also a purpose of the project. (Details [http://www.keiyobank.co.jp/ir/eco\\_project/](http://www.keiyobank.co.jp/ir/eco_project/))

We also work with ZOZO, Mitsubishi Oji Paper Sales Co., Chiba Television Broadcasting Corporation, SOGO Chiba, Epson, and so on.



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### ●Related sites

①Chiba University's Environmental Efforts / Sustainability Report

<https://www.chiba-u.ac.jp/general/approach/environment/>

②[Movie] Introduction of student-centered environmental management systems

<https://youtu.be/cOVn3-D2dRM>



Secretariat HP



student committee HP



NPO HP



Related sites①



Related sites②

# Dear students and faculty members of Chiba University

The students and the faculty members are the core of “Do”, which is one of the important parts of the PDCA cycle in the environmental management system at Chiba University. Please cooperate with the ecological activities which you can achieve in your daily life.

## Energy

When leaving a room, turn off lights and air conditioners. In addition, adequate ventilation should be provided as a measure against COVID-19 and adjust the air conditioners so that the room temperature is 28°C or higher in summer and 19°C or lower in winter.

## Garbage sorting

Sort out used cans, glass and plastic bottles according to recycling boxes when you throw them away. We are collecting empty contact lens cases and plastic bottle caps for beverages in front of the Life Center at Nishi-Chiba campus.

## Handling chemicals

When you conduct an experiment, refer to the safety manual published by the Safety and Health Organization at the university and follow your supervisor's instructions. Handle and store toxic substances and high-pressure gas cylinders appropriately according to the laws.

## Paper

Try to reduce paper usage; for example, utilizing online and electronic media, use the rear side of used paper, double-sided and multi-page printing.

## My bottle

In order to reduce disposable containers such as plastic bottles, have your own insulated bottle which is eco-friendly.

## Water

Water is a finite resource and even one drop of water is not free. Save water.

## Plastic bags

It costs 5 yen to get a plastic bag at Life Centres on campuses. Always have your own eco-bag with you to reduce plastic waste both on and off campuses.

## Green Procurement

When you go shopping, choose goods and services with reduced environmental loads and consider their necessity.

## Passive smoking prevention

Smoking on campuses is prohibited in principle except at designated spaces. Quit smoking and be considerate of those around you for their and your health if you smoke. You are only allowed to smoke in a specific outside smoking area.

For the latest information regarding COVID-19 prevention and the smoking area map on campuses, please look at the Safety and Health Organization website at the university.



## Do you know that used paper can be sold?

We ask for your cooperation in the collection of used paper

### ① Recyclable used paper paper that can be bundled

- Copier paper
- Newspapers
- Leaflets
- Art paper
- Cardboard



Leave them at designated collection sites, which each faculty has, or in the **red** collection boxes (only at Nishi-Chiba).



Sales income of used paper (Nishi-Chiba)

(Magazines)	2yen/kg
(OA paper)	6yen/kg
(Newspapers)	4yen/kg
(Cardboard)	3yen/kg

### ② Mixed paper paper that cannot be bundled

- Wrapping paper
- Candy boxes
- Paper bags
- Envelopes



them in the **yellow** boxes.



Collecting cost 0 yen/kg

### ③ Combustible waste Dirty paper and thermal paper

- Tissues
- Drink cartons
- Receipts



Throw them away in bins for combustible waste.



Collecting cost 29yen/kg

