# Kyoto University at a Glance 大学概要等

University Name Kyoto University President Nagahiro Minato

Yoshida-Honmachi, Sakyo-ku, Kyoto, Japan

June 1897

Staff	職員数(人)	Undergraduates	学部生等数(人)	Graduate Students 🛨	学院生等数(人)
Faculty and administrative staff 教職員	5,432	<b>Undergraduates</b> 学部学生	12,808	Master's course 修 $\pm$	4,945
Part-time staff 非常勤職員等	11,634	Auditing students 聴講生等	81	Doctoral course 博士	3,849
				Professional degrees conferred 専門職学位	729
				Auditing students 聴講生等	43
Total 合計	17,066	Total 合計	12,889 (220)*	Total 合計	9,566 (2,021)*

\*Number shown in parentheses is number of foreign students

Main Campuses Yoshida Campus ··· Yoshida-honmachi, Sakyo-ku, Kyoto Kumatori Campus ··· Kumatori-cho, Sennan-gun, Osaka

Gokasho, Uji, Kyoto

Katsura Campus ··· Katsura, Nishikyo-ku, Kyoto

·· Kanrin, Inuyama, Aichi ·· Hirano, Otsu, Shiga

### Scope of this Environmental Report 環境報告書の対象範囲

(Includes information on some activities extending to June 2023)

Total of 39.521 administration

and students

All (excluding environmental impact data Campuses for dormitories and lodging facilities)

Building floor area 1,396,502m Scientific research funds Graduate students Carbon footprint Ordinary expenses

Changes in main indicators for Kyoto University (Figures for 1990=100)

▲ Faculty and administration

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+81-75-753-2355

Cover Illustration by Kiyoko Yamaguchi

e-mail : ecokyoto@mail2.adm.kyoto-u.ac.jp

https://www.kyoto-u.ac.jp/ja/about/foundation





# KY @ TO UNIVERSITY

**ENVIRONMENTAL REPORT** 2023

Digest



# **Message from the President:** Our Commitment トップコミットメント

Kyoto University has set forth its basic principles as follows in the Kyoto University Environmental Charter: "We recognize that the preservation of the global environment is one of the most important issues for humanity. As part of Kyoto University's social responsibilities, we consider the environment in all university activities, and we strive to reduce environmental loads and prevent environmental pollution." With this in mind, our students, faculty and staff are now collaborating actively on various environmental initiatives.

Today, we face many challenges to our lives and well-being, such as global climate change, large-scale natural disasters, environmental degradation, emerging infectious diseases and pandemics, poverty and food insecurity, aging populations, social divisions and widening inequalities.

In 2015, progress on tackling environmental issues was made when Japan and other parties signed the Paris Agreement at the 21st Conference of the Parties to the United Nations Framework Convention on Climate Change (COP21). They agreed that each country, including developing countries, would set long-term greenhouse gas reduction targets and implement measures to achieve them.

Since then, each country has been working on measures and standards to curb the rise in the global average temperature. At the 26th Conference of the Parties to the United Nations Framework Convention on Climate Change (COP26) held in Glasgow, UK in 2021, a rulebook for concrete implementation was finally completed. More recently, at the G7 Summit in Hiroshima in May 2023, the G7 leaders discussed the climate crisis and the global clean energy transition, one of the most critical global issues today. All of the participating national leaders joined in announcing that "the goal of net zero emissions by 2050 remains unchanged. We need to chart a path to a robust energy transition that is tailored to the circumstances of each country and region, while involving major emitters."

The Japanese government has declared that Japan aims to achieve carbon neutrality by 2050, and it has also announced a 2030 target of 46 % reductions in greenhouse gas emissions compared to 2013, while striving to achieve a more ambitious 50 % reduction. In the 4th medium-term goal period (April 2022-March 2028), Kyoto University plans to promote the introduction of clean and renewable energy, to utilize electricity effectively, and to reduce CO<sub>2</sub> emissions. Furthermore, Kyoto University will start to take various initiatives to promote our "Smart Campus Plan," which manages energy supplies in each building unit and ensures resilience in the event of a disaster. Recently, the uncertainty of a stable energy supply has been increasing on a global scale, and utility costs have been rising at unprecedented rates. We have begun to address this situation, although with modest progress.

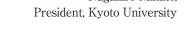
This report summarizes the various pro-environmental activities of Kyoto University students, faculty, staff and cooperating business partners for the past year, based on the university's principles of social responsibility. The report includes articles that introduce the Kyoto University Overview and the Kyoto University Annual Report. We hope that this report will help you gain greater understanding of Kyoto University's environmental activities and a new awareness of environment issues. We look forward to receiving your opinions and guidance.

5月のG7広島サミットでは、重要課題のひとつである気候・エネルギーについて「2050ネット・ゼロに向けた目標は不変。 主要排出国を巻き込みながら、各国・地域の事情に応じた強靱なエネルギー移行の道筋を示していく必要あり。」と示され、

情勢により、世界規模でエネルギー安定供給の不確実性が高まり、過去に類を見ない光勢費の高騰が続いていることもあり、

気づきや行動の契機となれば幸いです。本報告書について、忌憚のないご意見をお寄せいただくとともに、今後とも一層の ご支援をいただけますようお願いする次第です。











# **Sustainable Campus Activities**

サステイナブルキャンパス構築に向けた活動

# THE University Impact Ranking 2023

THE大学インパクトランキング

Times Higher Education (THE) has released the "THE University Impact SDG1 NOPOVERTY Ranking 2023," which evaluates the social contribution of universities within the framework of the United Nations Sustainable Development Goals (SDGs). The "THE University Impact Ranking 2023" was released on June 1, 2023. The ranking, which is now in its fifth year, includes 1,591 institutions from 112 countries. Kyoto University was ranked 49th in total. Among Japanese universities, we ranked second only to Hokkaido University

Since our establishment, Kyoto University has contributed to the "harmonious coexistence of global society" by maintaining a free academic culture based on dialogue. The cornerstone of this approach is the accumulation of basic and applied research based on a long-term vision, as well as the promotion of diverse research drawing on both science and humanities. The knowledge accumulated at the university is actively deployed in society through collaboration with SDG9 INDUSTRY, INNOVATION AND INFRASTRUCTURE companies and local governments.

イギリスの高等教育専門誌「Times Higher Education」は、国連のSDGsの枠組みを通して大学の社会貢献度を評価する 「THE大学インパクトランキング2023」を2023年6月1日に発表しました。今回が5回目となる同ランキングには、112ヶ国から 1.591機関が参加しています。木学は日本の中では北海道大学に続き2番目の 4.9位にランクインしました。

本学は開学以来、対話を根幹とした自由の学風を継承し「地球社会の調和ある共存」へ貢献しています。その礎は長期的な

ビジョンを見据え、腰を据えて取り組んできた基礎研究や応用研究の積み重ねであり、さらには文理融合も含んだ多様な研究の 発展にあります。これらの本学で蓄積された知を、企業や自治体との連携を通して積極的に社会へ展開しています。今回のTHE大学 インパクトランキング2023では、このような学内にとどまらない、地域社会と連携するさまざまな取り組みも高く評価されました。

#### University Network for Sustainabilty ASSC 大学間のネットワーク、2022年度サステイナブルキャンパス評価システムASSC ゴールド認定 \*\*\*\* Kyoto University is active in the Campus Sustainability Network in Japan (CAS-Net 国立大学法人京都大学 御中 JAPAN), which was established in order to contribute to a more environmentally sustainable 貴大学は、ASSC(サステイナブルキャンパス評価システム ゴールドであることを認定します。 society, through advancing campus sustainability at Japanese universities and by なお、この間定は、発行日より3年期有効とする。 establishing cooperative relationships with national networks of universities outside Japan.

We collect information on best practices outside Japan through active involvement in an Asian network known as ASCN (Asian Sustainable Campus Network), and we apply these examples to enhance our campus activities. In 2022, our activities were evaluated by CAS-Net Japan's Sustainable Campus Evaluation System (ASSC) by being awarded gold certification.

本学は諸外国のネットワークとの連携を通して、より持続可能な社会の実現を目指して設立されたサステイナブルキャンパス 推進協議会(CAS-Net JAPAN (Campus Sustainability Network in Japan))に、法人会員としてその活動に参加しています。また、同協議会が参加するアジアのネットワークASCN (Asian Sustainable Campus Network) を通して国外の先進事例等の情報を 収集し、本学の取組みに活かしています。本学の活動は2022年にはCAS-Net JAPANのサステイナブルキャンパス評価システム (ASSC) による評価で、ゴールド認定を受けました。

### Fourth Medium-Term Goals and Plans (FY2022-2027)

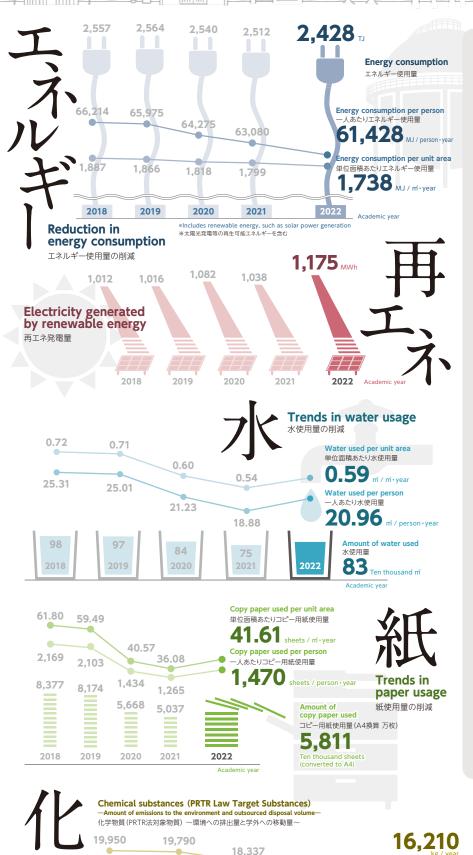
第4期中期目標・中期計画の紹介

The Cabinet approved the Sixth Strategic Energy Plan in 2021. Accordingly, we have drawn up our Fourth Medium-Term Goals and Plans for 2022-2027, establishing three main goals and targets as shown below:

- 1. Achieve 100 % visualization of power usage on a building-by-building basis at all major campuses.
- 2. Reduce energy consumption per unit of area by 6 % compared to FY2021.
- 3. Promote the diffusion of facilities for renewable energy power generation for self-consumption and achieve a total capacity of 1 MW. The first goal involves the installation of energy consumption meters and sensors in campus buildings to better inform facility managers of current energy usage.

As for the second goal, the previous policy was to reduce unit energy consumption by 1 % each year mainly through infrastructure measures, but this has been changed to a 6 % reduction over six years. The third goal is to actively expand renewable energy power generation facilities such as solar, wind, and biomass.

- 2021年に策定された「第6次エネルギー基本計画」を反映して、本学では第4期中期目標・中期計画において、下記の3項目を数値目標と共に定めております。
- 1.主要キャンパスにおいて、建物単位での電力使用状況の見える化を100%達成する。
- 2.エネルギー消費原単位を、2021年度比で6%削減する。
- 3. 自家消費型再工ネ発電設備の普及を促進し、総容量1MWを達成する。
- 1項目は施設管理者らが、できるだけ細かいエネルギー使用状況を把握するために、メーターやセンサー類の設置を目標としております。
- 2項目は、これまではエネルギー消費原単位をハード対策で毎年度1%削減するとしておりましたが、これを6年間で6%削減する方針に改めました。
- 3項目は、太陽光、風力、バイオマスなどの再生可能エネルギー発電設備の導入を目指す計画です。



SDG14 LIFE BELOW WATER

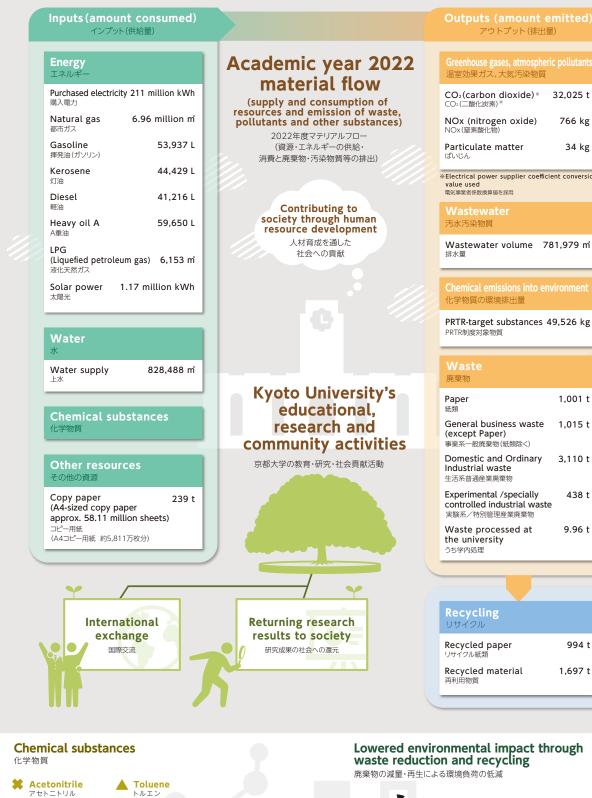
**\*\*\*** 

SDG15 LIFE ON LAND

SDG16 PEACE, JUSTICE AND STRONG INSTITUTIONS

RHH: 2023 # 6.R 3 B

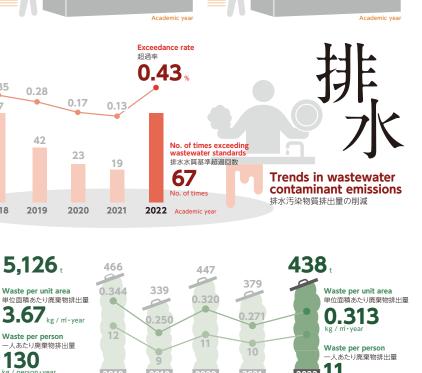
ASSC Gold Certificate





Based on the Law Concerning Reporting, etc. of Release of Specific Chemical Substances to the Environment and notion of the Improvement of their Management (the PRTR Law, in short), the emission of PRTR Law Target Substances reported by Kyoto University is presented in the above graph. The data in this graph consist of the otal amount of emissions and values for outsourced disposal volume moved off campus. これは「特定化学物質の環境への排出量の把握等及び管理の改善の促進に関する法律」に基

づいており、本学が届出を行っているPRTR制度対象物質について、環境(大気・公共用水域・1 度)への排出量と学外への移動量(外部委託処分量)の合計をグラフ化したものです



Amount of industrial waste subject to

**実験系 / 特別管理産業廃棄物排出量** 

# Student Environmental Activities 1: ECOle de Kyodai

学生の環境活動①:エコ〜るど京大

Carbon dioxide

二酸化炭素排出量の削減

95.3 kg-CO<sub>2</sub> / m²-year

Carbon footprint per unit area

22.9 kg-CO<sub>2</sub> / m<sup>2</sup>·year

Carbon footprint per person

32,025

人あたりCO。排出量

3,369

rersion factor for electricity: Default value 0.555 kg-CO<sub>2</sub>/kWh

140,777 141,132 139,798 137,835 133.140

104.073 103.464 119.067

気汚染物質排出量の削減

- 酸化炭素排出量(電力排出係数はデフォルト値(固定値:0.5

二酸化炭素排出量(電力排出係数は電気事業者係数を使用)

emissions reduction

不

ECOle de Kyodai is a network of student-led activities at Kyoto University that are linked to the theme of the Sustainable Development Goals (SDGs). In FY2022, we communicated about the SDGs not only on campus, but also online, in remote rural settings, at commercial facilities, and in a variety of other locales.

In June, at the Academic Marché to commemorate the 125th anniversary of Kyoto University, we upcycled donated kimonos to become daily use items, and we conducted an event creating sustainable chopsticks using Kitayama cedar. In November, we participated in an event in Kameoka City, where we held a chopstick-making workshop for elementary school students and broadcast an online program "Today and Tomorrow: SDGs!" In February and March, we created a compact environmental guidebook, which was distributed to all incoming students as in

エコ~るど京大は、京都大学の学生が主体となり、SDGsをテーマに活動するネットワークです。2022年度は、オンライン、里山地域、商業施設など、学内に 留まらず多様な場面でSDGs を発信しました。2022年度もイベントへの出展を通してSDGsの発信を行ってきました。

6月の京都大学創立125周年記念アカデミックマルシェでは、寄付された着物をアップサイクルル、箸袋やティッシュケースを作る手芸体験や、北山杉を 使用した箸づくり体験などを実施しました。また、11月には亀岡市のイベントに出展し、小学生を対象とした箸づくり体験会を実施したほか、オンライン番組 「今日も明日もSDGs!」の放送をしました。2~3月にかけて、例年新入生全員に配布している環境早見表を作成しました。



2023 Enviromental quick guide

### Student Environmental Activities 2: Ecomit

学生の環境活動②:えこみっと



Environmental Circle Ecomit is a circle that tackles environmental issues by doing what we can in our daily lives. We focus on putting ideas into practice. Our main activities, which are held on the campus of Kyoto University, include reducing environmental burdens at school festivals and reusing furniture and home appliances. At the 64th KU November Festival in 2022, we sponsored the "November Festival Environmental Committee," which worked to ensure the separation and recycling of festival waste. From March to April, we served as the executive committee for another activity, which coincided with student graduation and commencement season, the KU Recycle Market. The market gathers furniture and appliances that are still usuable from graduates and provides them to new students who will start their lives in Kyoto in the spring. As of 2022, The Recycle Market is now in its 36th it has been held.

環境サークルえこみっとは、身近でできることから環境問題に取り組むサークルです。「実践すること」に重点を置いています。京都大学内を主な活動の場とし、学園祭での環境負荷の低減や家具家電の リフース活動を行っています。

2022年第64回京都大学11月祭では、「11月祭環境対策委員会」としてごみの分別と再資源化の徹底のために活動しました。

また、例年3月から4月にかけて、「京都大学リサイクル市実行委員会」として、京都大学リサイクル市というイベントを運営しています。リサイクル市とは、京都を離れる卒業生の方などがお持ちの、 まだ使えるけれども不要になったという家具や家電を、春から京都で生活を始める新入生などに受け渡す、というイベントで、2022年で36回目を迎えました。

# CO-OP's efforts to achieve zero food loss

食品ロスゼロに向けた生活協同組合の取り組み

Kyoto University's food service, CO-OP, seeks to improve the accuracy of our estimates for the number of customers each day when purchasing food as a measure to reduce food loss, but we have not been able to reduce it to zero. To address this issue, in FY 2022 we participated in the "Zero Food Waste Kyoto Project," a project of the Ministry of the Environment that establishes a food recycling cycle in which food waste is sorted, weighed, and collected together to be recycled into poultry feed, and the resulting eggs are then purchased. The weighing machines and other equipment provided by the project made it possible for us to accurately weigh food waste and achieve zero food waste by converting the entire amount of food waste into feed.



食料品を扱う私たちの購買では、食品ロス対策として、利用予測の精度を高め、ロス率を低く抑えるように努めてきましたが、ゼロにはできていませんでした。2022年度は食品ゴミの分別と計量、 共同回収して養鶏飼料に再生させ、その鶏卵を購入するという食品リサイクルループを構築するという環境省事業「食品廃棄ゼロ京都プロジェクト」に参加しました。このプロジェクトで用意できた 計量機などによって食品廃棄の正確な計量が可能となり、その食品ロス全量を飼料にしてもらうことで食品廃棄ゼロを実現することができました。