



Cairo
University
Sustainable
Development
&
Climate
Change
Report



CU-SDCCR

2022

2030
VISION OF EGYPT

History



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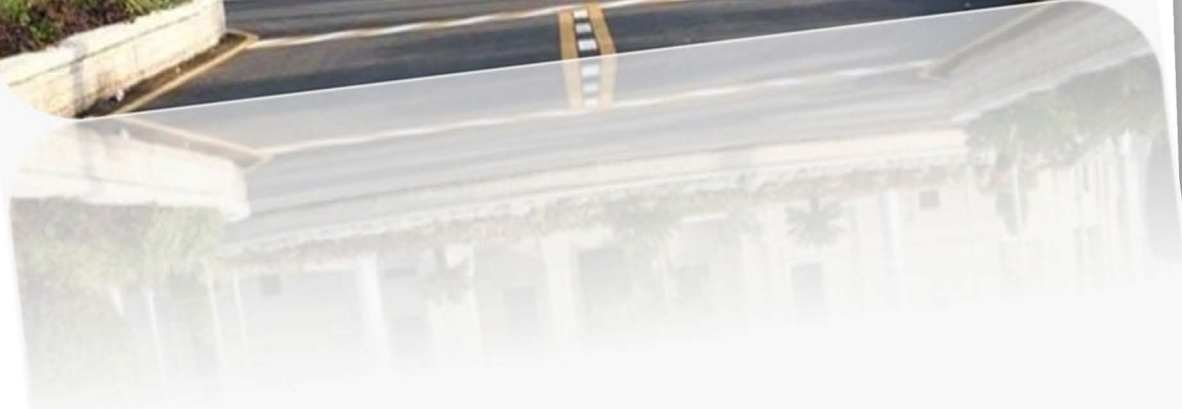
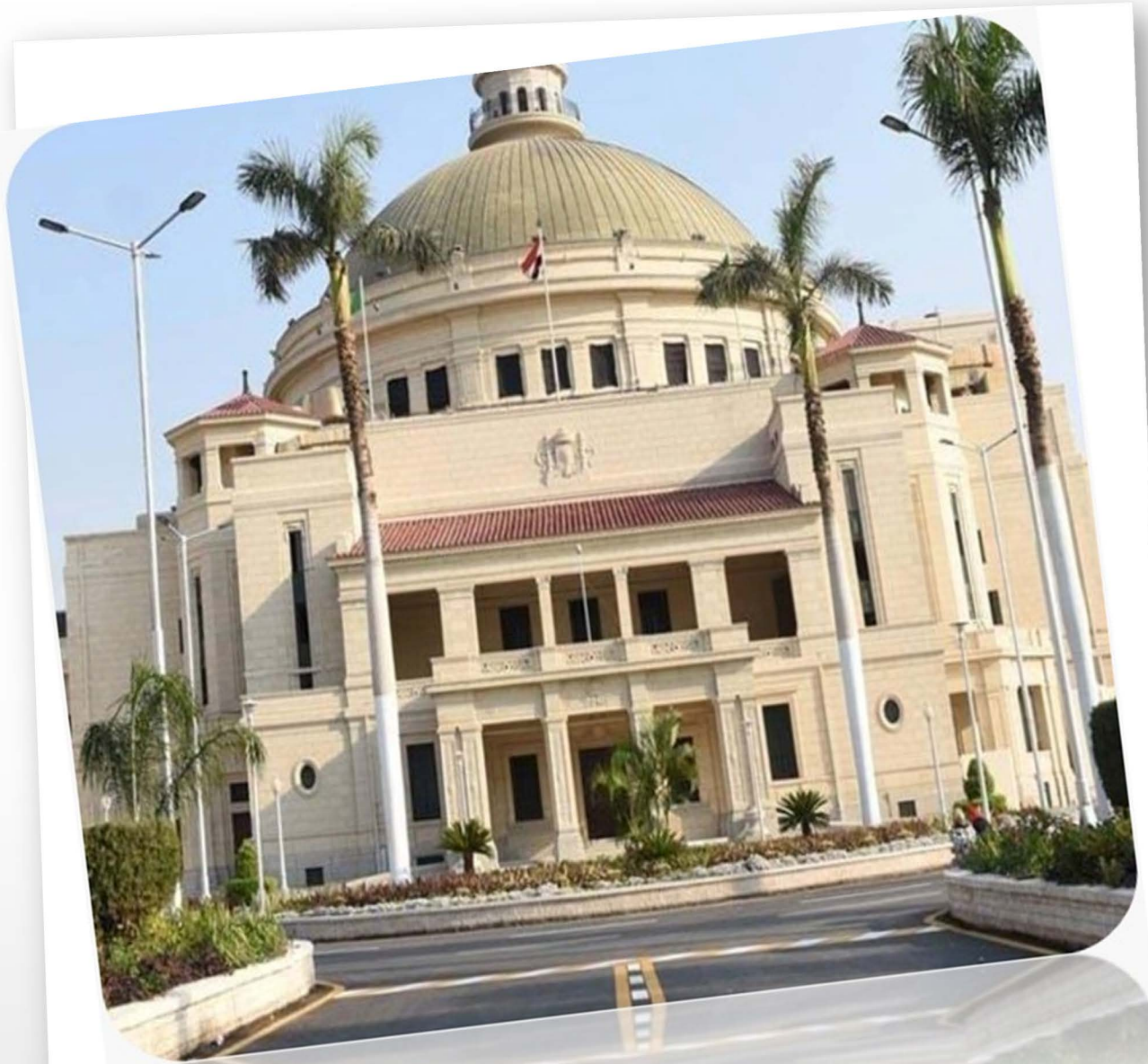
Cairo University
Sustainability Office
Member



**Prof. Dr. Azza Mohamed
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Sustainable Development: Vision & Mission

CU-SDCCR

2022

Vision

**Outstanding
environmental sustainability**

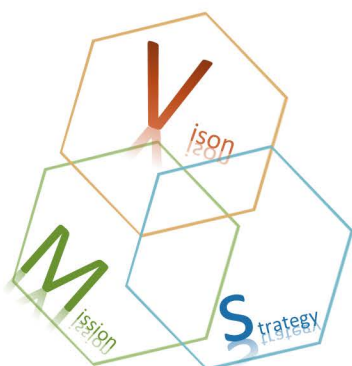
**to develop a strong community that
supports the preservation**

of everyone who passes

through its gates

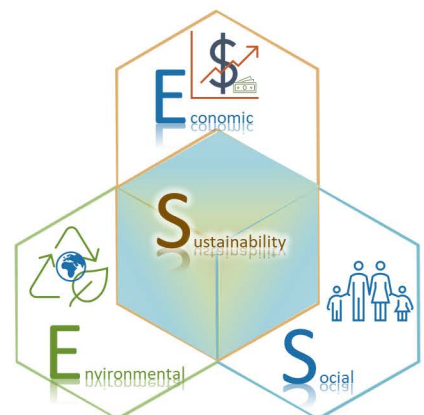
Mission

**To maximize the
wider positive impact of
environmental sustainability actions
at local, national and international
levels through communication,
collaboration and
partnership**



Cairo University aims to create a sustainable campus that fundamentally enhances its research and teaching mission while being committed to its social responsibility and recognizes that the challenges it faces are complex and interrelated and require an ever evolving approach to achieving sustainability. Cairo University played an important role in the advancement of the sustainability development goals (SDGs). Sustainability at CU is based on three main pillars: economy, environment and society in order to achieve a greener, equitable and sustainable world. Cairo University is committed to sustainability at an academic level where students are given opportunities to learn about concepts of sustainability and find solutions to complex environmental issues. Cairo University is uniquely positioned to participate in and support sustainable development not only through research and education, but also through its vital operations. Sustainable development at CU includes more than

just reducing the campus' impact on the surrounding environment, as the university strives to develop a strong community that supports the preservation of everyone who passes through its gates by expanding and advancing in research. The strategic vision of CU includes various aspects of advancing the university's sustainability, including education, research, campus operations, campus community and public engagement. The strategic vision includes the university efforts to transform the campus into a more sustainable society that strives to achieve its commitment to the United Nations sustainable development goals, Egypt's Vision 2030 and Egypt National Climate Change Strategy (NSCC) 2050.



Cairo University Profile

CU-SDCCR

2022

Cairo University was established in 1908; currently, it has 28 faculties/institutions in different scientific disciplines, with a total volume of about 220000 students. Cairo University aims to be a sustainable, healthy and green university. Cairo University aims to produce graduates with the moral, quality and skills to be global citizens.

The university is committed to conducting research and innovations for excellence and serving academic services for the benefit of society. Cairo University has successfully been undertaking its mission of delivering education, research and cultural duties over the years. It is considered as the mother university among other younger universities in Egypt. Cairo University is also offering its education and research facilities to Arab and foreign students and scientists and has become well known worldwide. Cairo University is a comprehensive institution of higher learning located in Giza, Egypt. Cairo University is usually ranked among the top universities in Egypt. It is ranked #551-560 in QS World University Rankings 2023.



World



Arab Region



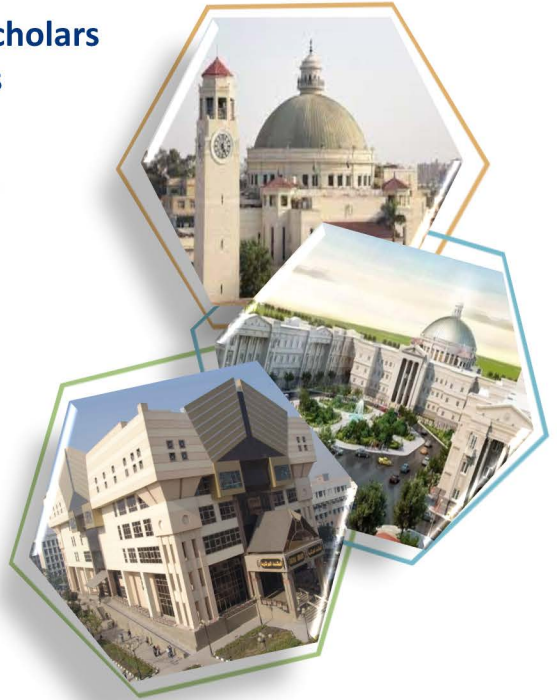
Africa



Egypt



CU-numbers



CU-Facts



CU alignment to Sustainable Development Goals 2030



By 2030, we are committed to end poverty in all forms.



By 2030, we are committed to ending hunger, improving nutrition, achieving food security as well as promoting sustainable agriculture.

By 2030, we are committed to ensure health life and promote wellbeing in such a way contributing Giza being the leading Governor in the Egypt for Health and Wellbeing.



By 2030, we are committed to ensure quality, equitable and inclusive education and promote lifelong learning opportunities for all.

By 2030, we are committed to preventing violence against women, promote gender equality and actively support women in their lives and careers as well as empower all women and girls.



By 2030, we are committed to ensuring access to clean water and sanitation for all as well as decreasing the amount of the untreated wastewater and increasing the using of the recycled water.

By 2030, we are committed to ensuring access to clean renewable and sustainable energy as well as encouraging investment in energy and technology infrastructure.



By 2030, we are committed to support sustainable economic growth productive employment and decent work for all as well as encouragement of small and medium sized projects.

By 2030, we are committed to promote sustainable manufacturing and innovation through the efficient use of resources, and the adoption of environmentally friendly technologies.



By 2030, we are committed that all persons, regardless of age, gender, disability, race, ethnicity, origin, religion, economic or other status, shall be empowered and promoted their social, economic and political inclusion.

By 2030, we are committed to ensure access to safe, affordable and adequate housing and basic services.



By 2030, we are committed to achieve sustainable management and efficient use of natural resources. This includes sustainable design of consumption and production patterns, reduction of global food waste, and reduction of waste generation through prevention, reduction, recycling and reuse.

By 2030, we are committed to integrate climate protection measures into national policies, strategies and planning, and enhance resilience to climate-related hazards and natural disasters.



By 2030, we are committed to promote significant and effective strategy for marine pollution ending

By 2030, we are committed to contribute to sustainable conservation and use of biodiversity and ecosystems as well as to promote sustainable management of all types of forests, ensuring the preservation of mountain ecosystems and combat desertification.

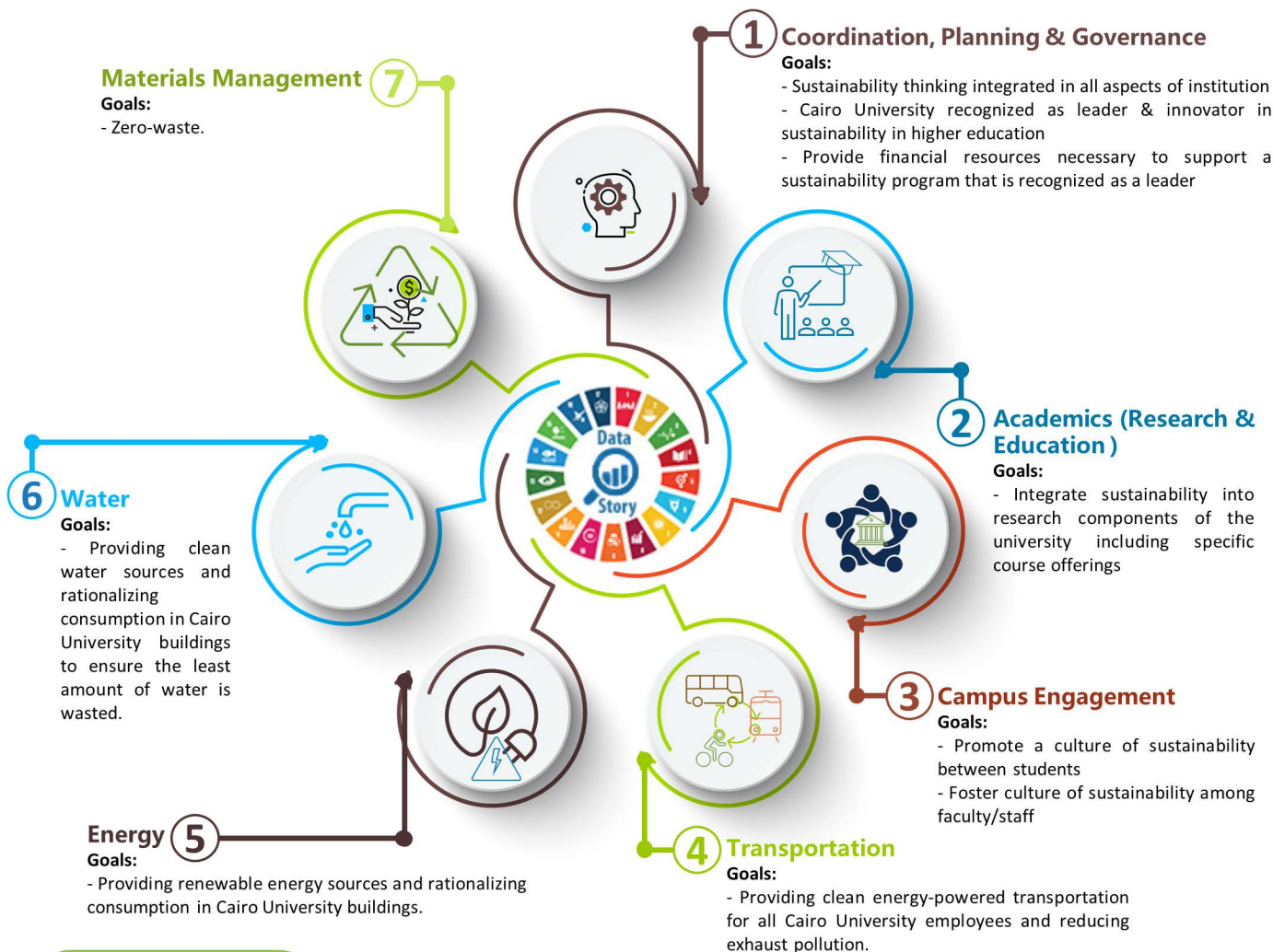


By 2030, we are committed to reduce all forms of violence and violence-related deaths and ensure equal access to justice for all as well as build effective, accountable and transparent institutions at all levels.

By 2030, we are committed to become a partner with government and civil society at all levels for implementation of all sustainability development goals.



SUSTAINABLE DEVELOPMENT GOALS



Objectives

1. Coordination, Planning & Governance

Long-Term

1. Get the first place in the world rankings
2. By 2025, obtain the gold accreditation for the system of sustainability tracking, evaluation and global classification (AASHE STARS)
3. By 2025 Increase the budget allocated to coordinating sustainability efforts at the campus level

Short-Term

1. Advancement in world rankings
2. By 2023, designation as a STARS Reporter for the Global Sustainability Tracking, Evaluation, and Ranking System (AASHE STARS)
3. By 2023, the concepts of sustainability are included in all university sectors

2. Academics (Research & Education)

Long-Term

1. Increasing the percentage of courses related to sustainability to 50% by 2025
2. Increasing the percentage of scientific research related to sustainability to 50% by 2025
3. Increasing the percentage of research projects related to sustainability to 50% by 2025

Short-Term

Conducting a questionnaire for all colleges and institutes to determine the current percentages of academic courses, scientific research and research projects that include sustainability

3. Campus Engagement

Long-Term

1. Work to instill a culture of sustainability in all events
2. Work to instill a culture of sustainability in all activities of the faculty / staff

Short-Term

1. Promoting sustainable events and making sustainability in the minds of students
2. Promote sustainable events and make sustainability in the minds of the faculty/staff

4. Transportation

Long-Term

1. Use of renewable energy sources in transportation
2. Providing mass transportation to all areas.
3. Make the campus free of polluting emissions to the environment

Short-Term

1. Conducting a questionnaire for all university employees about accepting the idea of converting cars to natural gas.
2. Educating students and staff about the importance of using clean energy in transportation.
3. Follow-up with the Ministry of Transport for the presence of a unit for converting cars to run on natural gas.

Objectives

5. Energy

Long-Term

1. Use of renewable energy sources
2. Providing lighting and appliances with less energy consumption
3. Providing buildings with sensors to control lighting and operation

Short-Term

1. Conducting a questionnaire for all colleges to determine the current rates of energy consumption and an inventory of modern applications of energy use in buildings
2. Educating students and staff about the importance of rationalizing energy consumption
3. Follow-up and maintenance of the university's solar panels

6. Water

Long-Term

1. Reduce bottled water consumption by 45% by 2040
2. Providing alternative methods of irrigation
3. Providing toilets with sensors to control water consumption

Short-Term

1. Make a questionnaire for all colleges to determine the current rates of water consumption and to determine the amount of water used for irrigation to estimate a minimum level of consumption
2. Educating students and staff about the importance of rationalizing water consumption
3. Follow up on the available alternatives to rationalize consumption

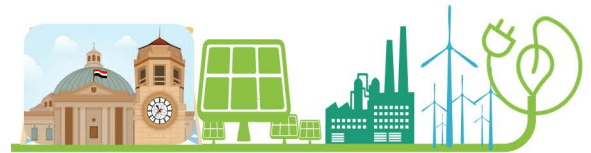
7. Materials Management

Long-Term

1. Safe transfer and disposal of solid waste at a rate of 90% by 2025
2. Reduce the use of paper and plastic by 50% by 2026
3. Treating inorganic and organic waste by 50%, benefiting from it and using it as natural fertilizer, for example, by 2026.

Short-Term

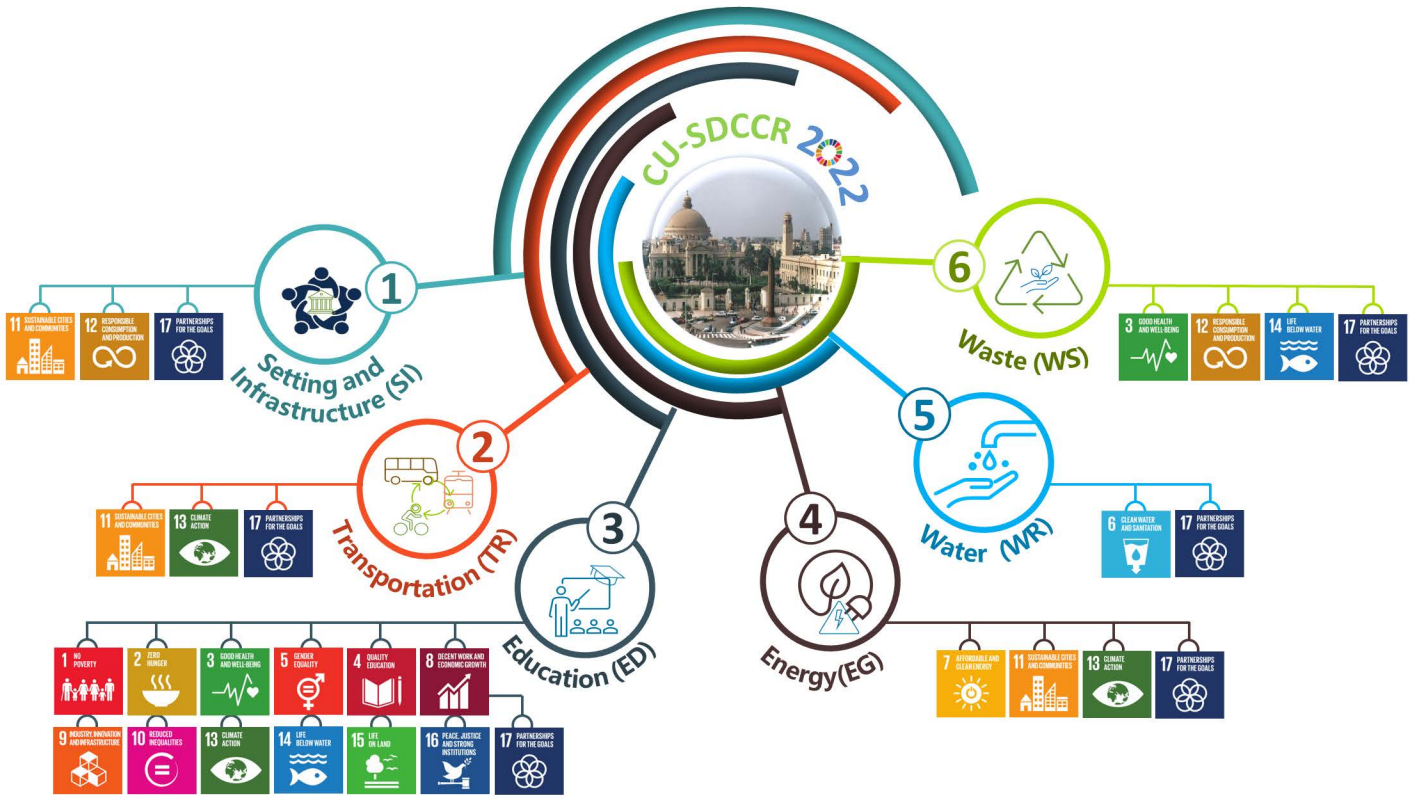
1. Provide the necessary equipment for accurate sorting of waste.
2. Spreading the necessary awareness among workers and students



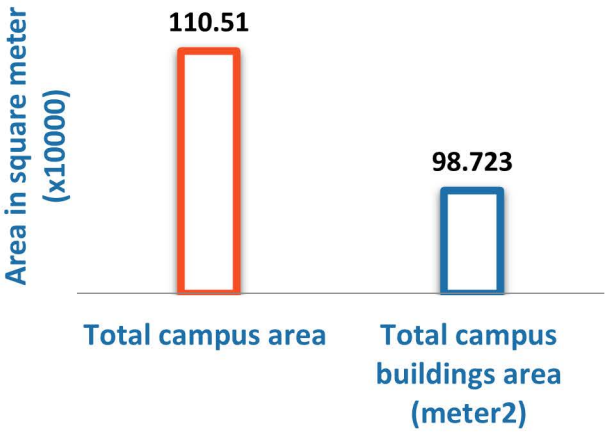
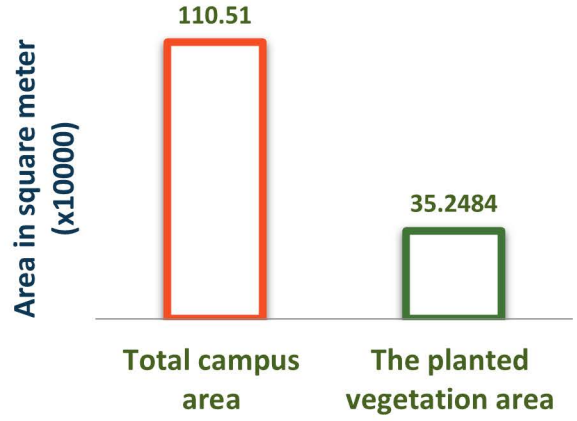
SUSTAINABILITY CU Alignment to the United Nations Sustainable Development Goals (SDGs)

CU-SDCCR

2022

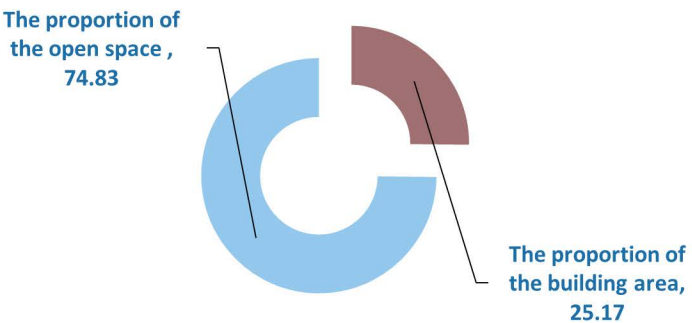


Cairo University aims to be a “green and healthy university” that encourages education reform, promotes lifelong learning and is a university of exemplary innovation for society and sustainable development. The university is committed to conducting research and innovations for excellence and serving academic services for the benefit of society.



Campus facilities for disabled, special needs and or maternity care

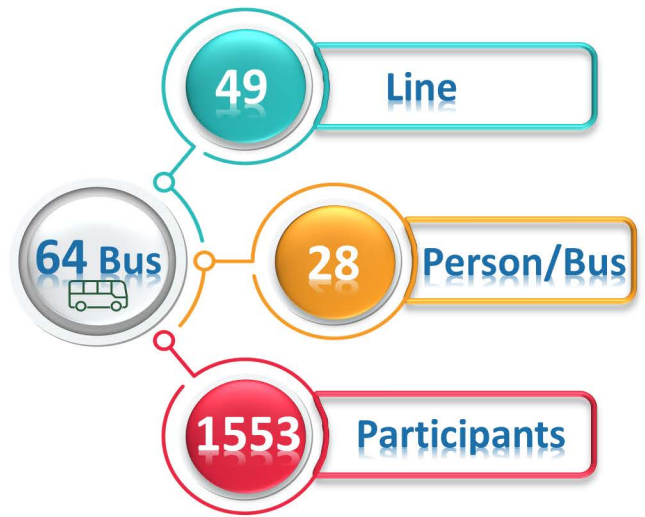
Cairo University gives priority to care for students with special needs and has taken many steps to support people with special needs, as it was decided that students with special needs have the right to attend any faculty that suits their circumstances and represent their faculty at the University Students Union.



Cairo University provides a mass transportation policy by providing 64 buses operating on 49 lines and providing a safe and comfortable means of transportation for 1,553 employees and faculty members. From here, it is clear that each bus carries approximately 28 people.

Shuttle service is provided (by the university or other parties) and the university contributes a part of the cost.

- The university is characterized by an excellent and strategic location, with many public transportation means.
- The university provides a comprehensive bus service available to all its members.
- Buses operate on set times throughout the day, five days a week, in addition to limited times on Saturdays.
- Faculty of Commerce, Cairo University, provides transportation for students of the English Language Division at El-Sheikh Branch.
- The university has a dedicated door for the Cairo University metro station.
- Operating high-quality buses to connect the 6th of October and Sheikh Zayed areas with the Cairo University metro.



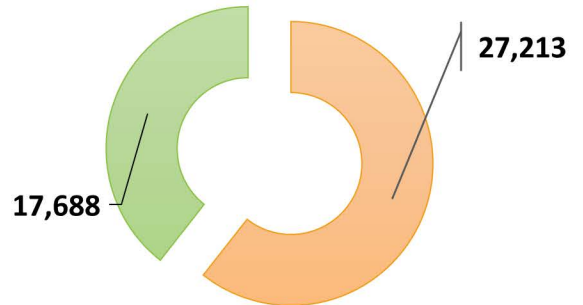
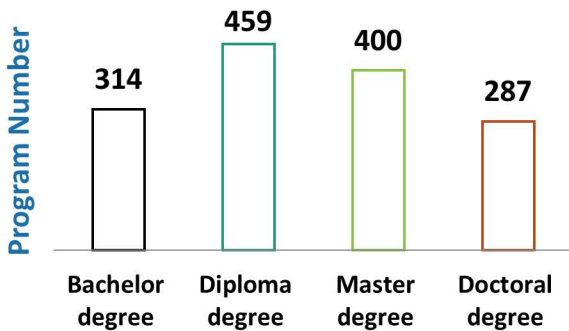
Zero Emission Vehicles (ZEV)

Policy on Campus

Cairo University is making great efforts in making a comprehensive development to advance the university at all educational, research and environmental levels within the framework of its strategy to shift towards fourth generation universities despite the exceptional circumstances imposed by the Corona pandemic.

Making regular environmental measurements is one of the most important legations to save the environment. This is done to all different facilities aiming to make an environmental records and recording the measurement results, controlling and environmental monitoring regularly and continuously

Total Number of Programs Offered in 2022



- Total number of courses or subjects
- Sustainability related courses/subjects

Faculty of New and Renewable Energy Sciences

Cairo University established a new faculty of new and renewable energy sciences international branch of Cairo University in 6th of October City, west Cairo. The college offers distinguished academic programs with technological qualities that are compatible with the requirements of the labor market and the achievement of the strategic plan of the state 2030, through 10 study programs, namely: “solar energy program, wind energy, chemical energy, nuclear energy, hydropower, bioenergy, and biofuel energy.” geothermal energy, tidal energy, and the blue-green hydrogen energy program

Some Sustainability focused Academic Programs



- B.Sc. Water and Environmental Engineering Program,
- Shared Water Resources Development (SWRD) program,
- Sustainable Energy Engineering [SEE],
- MSc in Renewable Energy and Energy Efficiency in the Middle East and North Africa (MENA) Region (REMENA).



Academic programs

Water and Environmental Engineering Program

Cairo University, Faculty of Engineering established a new Bachelor of Science degree B.Sc. in Civil Engineering with a major emphasis on “Water Engineering and Environment”; termed below as: WEE. This program will prepare graduates for specialized training in hydrology, hydraulics, irrigation, water resources, coastal engineering, environmental and soil science among other subjects. Graduates of WEE will be well prepared to address critical environmental issues involving interconnections between the earth, water, and environment, as well as the interaction between these applied sciences and human activities. Hence, the program will help forming human resources equipped with technical capabilities to better manage the future limited water resources not only in Egypt but also in the Arab world and the Nile river basin countries. Both regions are naturally of great importance to Egypt’s national interests and prosperity



Sustainable Energy Engineering Program

The field of Sustainable Energy Engineering is the core foundation of the immediate future growth in Egypt and surrounding region. Egypt is on its way to become the regional energy hub. This would only be possible by the hands of a new generation of qualified engineers in the fields of energy. The course provides students with the understanding of fundamental knowledge prerequisite for the practice of, or for advanced today. Also, the course aims to provide the students with broad based professional education that covers the important current and developing issues in sustainable energy engineering and all related fields and applications, This is necessary for a productive career, and for being able to search and research in the spirit of continuing education in the field of sustainable energy engineering and allied areas.

Shared Water Resources Development



Academic programs

MSc in Renewable Energy and Energy Efficiency in the Middle East and North Africa (MENA) Region (REMENA)

- University of Kassel, Germany
- Cairo University, Egypt
- University of Monastir, Tunisia

This master program provides young professionals with technical and managerial knowledge in the renewable energy and energy efficiency (REEE) sector and with intercultural competencies. Both aspects are equally important when taking up leadership positions in the renewable energy sector and to work effectively in the framework of international cooperation.

Countries in the Middle East and North Africa (MENA) region face a change in energy policy due to the depleting resources of fossil fuels, the rising prices, and growing demand. Sustainable energy supply will remain one of the most crucial challenges for the Arab region in the coming decades and also a main focus in developing cooperation. Experience shows that there is a lack of energy experts being familiar not only with technological aspects, but also with the culture, language and politics of Arab and Western European countries.

Three universities – the University of Kassel, Germany, Cairo University, Egypt, and the University of Monastir, Tunisia – in cooperation with institutions and companies in the renewable energy sector have combined their expertise to design an attractive master program to guarantee an excellent education for young experts to meet the challenges of sustainable energy supply and renewable energy and energy efficiency topics. The program is currently being extended further to diversify the study contents. An even broader range of topics is offered by REMENA University Network (RUN) partners for optional exchange semesters including the University of Sfax (US) and the German University in Cairo (GUC).

The program is directed to young professionals with work experience and a high motivation to contribute to introducing a sustainable energy supply and to the development in the Arab region in general, which includes a keen interest in the other culture and language. Students in this program study 24 months at different locations including at least 6 months in Kassel, Germany, and at least 6 months in either Cairo or Monastir. The course includes intensive German/Arabic language courses and modules in intercultural training.



Energy efficient appliances usage are replacing conventional appliances

- 1- Installing solar heaters to provide hot water for all campus restaurants and student housing.
- 2) Replacing all external incandescent lamps for all buildings and lighting poles with more energy efficient LEDs.
- 3) The use of lighting poles inside the university campus with solar energy cells for lighting at night.
- 4- Activating the pilot plant project for the production of electrical energy at the Faculty of Engineering.
- 5- The installation of occupancy sensor is an indoor motion detection device used to detect the presence of a person to control the lights automatically
- 6- Assigning the administrative security to ensure that all lit lamps are turned off at night, as well as on holidays and vacations.
- 7- Recommending obligating colleges to establish an energy management team in departments and units, which works to monitor and follow up on energy use.
- 8- Cairo University formed a committee to follow up the implementation of the government's plan to rationalize electricity consumption in buildings and facilities.
- 9- The tendency to purchase energy-saving devices instead of traditional devices.
- 10- 90% of the external incandescent lamps for all buildings and lighting poles have been replaced with more energy efficient LED lamps.

The number of renewable energy sources on campus (EC3)= 1 source (solar energy).

Fourteen Solar cells have been installed in university buildings.



Renewable energy sources and its capacity (in kilowatt hour)

The electrical power produced by Solar roofs= 660 kilowatts and this is a nucleus for extending the implementation of solar cells in most of university buildings.

Electricity usage per year (in kilowatt-hours)= 16000000

The ratio of renewable energy production divided by total energy usage per year

$$600/16000000= 0.0000375$$

This ratio is too low but the university is extending the implementation of the solar cells in most of university buildings.

1. Water consumption rationalization

- Plans and mechanisms for maintaining taps and internal supply networks for the university to prevent water wastage
- Water-saving cutting technology is a modern, simple and easy way to disassemble and install it is installed on the nozzles of the taps currently in use without the need to change those taps at all. Flowing water, which achieves the rationalization axis, one of the most important axes of the strategy for the development and management of water resources.
- Replacing pipes with drilled holes with spray manifolds.
- Using manual spraying system once a day for irrigation.
- The workers are sure nozzles are properly positioned to ensure precise spray coverage with minimal waste.

2. Planation of drought-tolerant plants

Palms (date palms and prichardia) and trees (conocarpus, tamarind, prosops, Broad pepper, Ficus netda, glass mattress, carob, cypress, lemon cypress, thin pepper, decrostaches, sycamore, bell, caszurina, buckthorn, olive, arthurina, poinciana, acacialinga and fitna)

3. Water efficient appliances usage

	Water taps		Toilets		Showers		Urinals	
	Normal	Water saving	Normal	Water saving	Normal	Water saving	Normal	Water saving
Quantity (Pieces)	19,678	543	26,378	311	-	-	3,476	211
Total quantity	20,221		26,689				3,687	
(Pieces)								
Ratio [%]	97,31	2.75	98,83	1.16	-	-	94.27	5.72
Total proportion [%]	1.065 from 50,597 pieces with ration of 2.1 %							

4. Cairo University has ground tank for water conservation



5. Water recycling program implementation

Two units for the treatment of gray water were established at Cairo University in the following places (the mosque of the Faculty of Commerce / Building No. 2 in the University City) and based on the visits and inspections that were made on this subject.



Waste minimization and diversion

- Separation of plastic, paper and food using garbage's boxes takes place from the beginning.
- Food trash is recycled into bird food using special machinery
- Plastic and paper garbage is collected and sold to an eco-conserve-certified company for waste transfer and treatment.
- Programs to reduce the use of paper and plastic on campus: such as reusable cups and printing on both sides. As digital transfer in education:
- Use of blackboard platform for teaching, education, scientific materials.
- Approved usage of an e-documentation system instead of paper.
- Use of the electronic system to communicate; announce faculty members, students and employees in more than 90% of the university's faculties.
- Use of reusable bags instead of plastics.
- Use of digital artworks instead of papers.



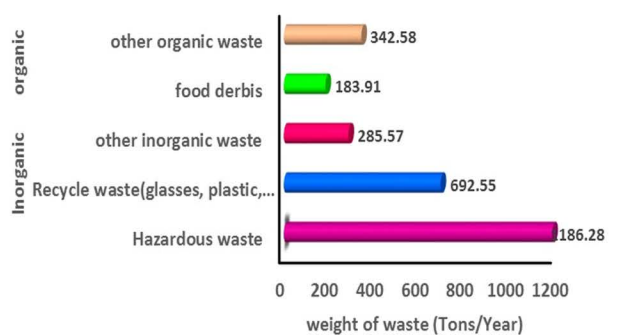
Organic Waste Treatment

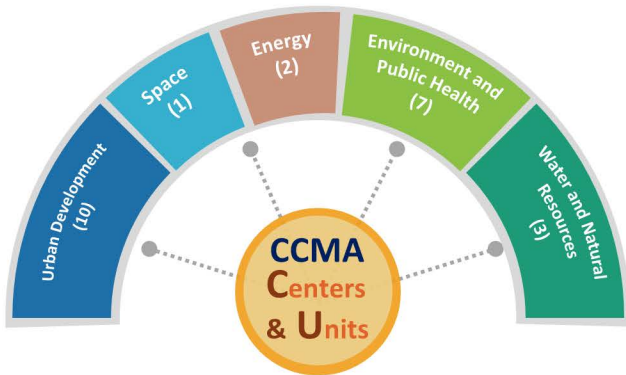
- Reduction of university organic wastes to 526.49 tons in 2020, down from 675.96 tons in 2018.
- Organic waste accounts for 19.56 % of all university garbage (with Food waste 45%).
- A program for fertilizer production from these food wastes has been established between the Ministry of Environment and Agriculture, and science faculties from 2018.
- A facility for energy production is being built in collaboration with the Ministry of the Environment. It is scheduled to begin in March of 2022.

Inorganic Waste Treatment

- The inorganic wastes were 978.12 tons/year (36.35 %) of the total CU wastes 2022 with 10% reduction to which recorded in 2018.
- CU has established a weekly system for the waste sorting, transfer and selling to recycled companies.

Garabage 2020





Center of Hazard Mitigation, Environmental Studies and Research (CHMESR)/Cairo University

The center works in the field of environment and community development through the preparation of environmental and social impact assessment studies for industrial and non-industrial establishments. Also, CHMESR conducting various environmental measurements for existing facilities in accordance with Environmental Law No. 4 of 1994, as well as holding various training courses and holding conferences in relation to the environment in order to spread environmental awareness in the community.



Energy Research Center

The Energy Research Center (ERC) has been established in 1989 as part the national plan of the Supreme Council of Universities to promote highly independent service oriented centers. ERC is located in the Faculty of Engineering Cairo University. It has a floor area of 400 m² including three offices, two laboratories, a library and a conference room. The two laboratories include provisions for the

measurements of both basic electrical and mechanical quantities besides industrial control instrumentation.

Data acquisition equipment are an integral part of these laboratories. The laboratories include training devices, such as power saver trainer and air distribution system trainer in addition to the basic energy management training system. In addition to these laboratories the center directs the coal analysis.



Center of Studies and Designs for Water Projects

CWP provides engineering consultations, technical services, research and development work, and continuous engineering education to national establishment and governmental organizations. The Center offers consultation on contractual basis in engineering disciplines related to water projects.

The expertise of the Faculty professors who represents the consultants to the Center, is fully supported by the laboratory and computational facilities, Internet services, as well as libraries of the Irrigation and Hydraulics Department and the Faculty of Engineering to assist in conducting the different activities of the Center.



USAID and Cairo University establish Center of Excellence Agriculture

USAID has launched a five-year, \$30 million cooperative project with Cairo University and Cornell University to create a Center of Excellence in Agriculture at Faculty of Agriculture, Cairo University.

CAIRO (28 March 2019)—Guided by the ambitious goals of Egypt Vision 2030, the United States Agency for International Development (USAID) today launched a five-year, \$30 million cooperative project with Cairo University and Cornell University to create a Center of Excellence in Agriculture at Faculty of Agriculture, Cairo University. The Center of Excellence Agriculture (COEA) will enhance curricula at Cairo University to train the next generation of Egyptian students and equip them with the tools needed to improve agricultural production in Egypt.

"The Center of Excellence Agriculture at Cairo University will deliberately work hand-by-hand with all Faculties of Agriculture from different Universities and Research Institutes in Egypt for achieving sustainable Egypt vision for 2030," said Naglaa Abdallah, Chief of Party (COP) of the COEA. She continued, "the collaboration with top ranked land-grant American universities in agriculture will dramatically upgrade our curricula, enhance applied research and innovation which will build bridges with stakeholders, and prepare highly qualified and market-ready graduates.

Unit of Ashing Carcasses and Environmental Contaminants (UACEC)

The Unit concerns with hygienic disposing of animal and poultry carcasses as well all environmental contaminants from different sources. The unit aims for the safe disposal of hazardous medical waste in a unit equipped with the latest shredding and sterilization devices, and a warehouse unit that conforms to the highest standards of quality and infection control. The unit also works to ensure the necessary procedures for the proper separation of medical waste, such as medicines, chemicals and cytotoxic drugs, to facilitate the process of disposal of the product of shredding and sterilization. The unit also applies the best environmental practices and the latest technologies available in the management of healthcare waste, which ensures the sustainability of the system and ensures the preservation of the environment and the public health of citizens.



USAID
FROM THE AMERICAN PEOPLE

COEA
CENTER OF EXCELLENCE FOR AGRICULTURE
مركز التميز في الزراعة



Unit of Ashing Carcasses and Environmental Contaminants (UACEC-CVM)

FEBS Business Incubator Hub for innovative startups

Faculty of Economics and Political Science Business Incubator, FEPS BI, is a hub for innovative startups. As it provides them with outstanding entrepreneurial knowledge based on its unique scientific methodology. In addition to this, the exposure to a diversified network of mentors and advisors with eminent professional, practical, and academic experience. This accumulated knowledge enables FEPS BI to provide a distinguished entrepreneurial experience for all youth in Egypt.

FEPS BI through its diversified services aims to the promotion and enhancement of the Sustainable Development Goals adopted by the United Nations in 2015 and which are incorporated in the Egyptian Development Strategy 2030. The adopted goals include and not limited to; Decent Work and Economic Growth, Education, Good Health and Well-being, Gender Equality and Women Empowerment, Sustainable Cities, and Renewable Energy. Through the fulfilling of following goals:

- Create an Entrepreneurial mindset for Egyptian youth.
- Commercialization of the academic researches that help in enhancing the sustainable development goals.



- Empowering youth with innovative startups ideas that aim to achieving the Sustainable Development Goals.
- Contribute to the reduction of unemployment rates, and raise the rate of employment among youth.
- Raise Egyptian youth awareness about entrepreneurship.



The strategic plan of the international branch of Cairo University is based on analyzing the current situation of Cairo University, taking into account the strategic vision for higher education in the Arab Republic of Egypt, which is derived from Egypt's Vision 2030, allowing the preparation of a bold, effective and reversible strategy that works to achieve distinction as a main goal and reflects the available and expected inputs to build on The historical strengths of Cairo University with the development of new fields and programs that can move the university to different levels and horizons.

The international branch of Cairo University is the way to transform into third-generation universities, which aims to move higher education towards globalization and achieve educational distinction, with smart building design.



The international branch of Cairo University in 6th October city

The International Branch of Cairo University is considered a nucleus for providing an integrated educational approach that aims to integrate education and scientific research and the exploitation of knowledge. Related programs that support the values of development, innovation and sustainable development by smart building implementation.



Elements of green building implementation as reflected in all construction and renovation policies

Green building offers employees a comprehensive set of best practices to help their design and construct efficient, healthy homes that benefit the community, the environment, and your bottom line.

1st element Site planning and design

Cairo University offers affordable housing works best when residents have easy access to key services and transit. Infill sites have these and many more environmental benefits. Cairo university apply that and by taking care of trees and soil conditions during construction.

2nd element is Indoor Air Quality

Indoor air quality significantly impacts Cairo university resident health and comfort--essential goals for any building. Achieving a high quality indoor environment requires careful design, construction, and materials choices, and thus strong coordination among the building team. Indoor air quality centers on well-designed ventilation and moisture control, which goes hand in hand with energy efficiency and building durability. Ongoing maintenance is important, of course, as is a commitment to finding alternatives to toxic materials and finishes.

3rd element is Water

Conserve finite freshwater resources and reduce utility bills by installing water-efficient appliances and plumbing fixtures, landscaping with drought-resistant plants and efficient irrigation, and greywater to use.



The Sustainability office is the platform that enables faculty, students, and staff to embed sustainability into education, research as well as operations and community

Vision:

Cairo University is a leading global institution in promoting environmental sustainability.

Mission:

Enhancing institutional sustainability and preparing cadres capable of finding environmentally sound, socially just and economically viable solutions.

Goals



- 1- Promote sustainable resource management by developing and implementing sustainable practices to reduce energy, water and waste consumption throughout the campus according to international standards.
- 2- Improving carbon footprint trends by auditing carbon footprint data and maintaining emissions reduction trends.



Cairo University has many international Cooperation's that are contributing to large extent for knowledge transfer and targets the adaptability to climate change, with a focus on mitigating the negative effects of the global phenomenon.

- 1- Memorandum of Understanding between the Ministry of Environment and Cairo University to prepare a university program for environmental sciences through the Air Pollution and Climate Change Management Project, which is being implemented in cooperation with the World Bank.
- 2- A cooperation protocol between the Ministry of Environment and the Faculty of Engineering at Cairo University with the aim of providing support and assistance in the implementation of projects for the production and use of environmentally friendly technology.
- 3- Memorandum of Understanding between the National Institute for Governance and Sustainable Development, the training arm of the Ministry of Planning, and the Business Incubator of the Faculty of Economics with the aim of supporting the national economy and the sustainable development strategy in Egypt and Political Science at Cairo University.



Faculty of Engineering
Cairo University



1- Examples of initiatives and simulations

A- In cooperation with the Ministry of Environment and the USAID Economic Governance Project, A simulation model for the 27th session of the Conference of the States Parties to the United Nations Framework Convention on Climate Change COP27



B- Initiative to spread awareness of the use of solar energy

Over the past years, the Egyptian state has paid great attention to renewable energy. President Abdel Fattah El-Sisi stressed that Egypt is rich in natural resources, especially wind and solar energy, which qualifies it to be one of the largest producers of renewable energy. Cairo University also has cooperation in spreading awareness of solar energy by different events.



C- Green Tourism Initiative

In cooperation with the Ministries of Tourism and Environment.



2- Examples of conferences organized by the university in the field of environmental sustainability and climate change



3- Examples of competitions organized by the university in the field of environmental sustainability and climate change



4- Students' creativity



5- Seminars on environmental sustainability and climate change



6- Awards and world ranking of the university in the global ranking in the field of environmental sustainability and climate change

1- Cairo University won first place at the level of public universities in the competition for the best environmentally friendly university for the academic year 2020/2021, which was launched by the Ministry of Higher Education and Scientific Research



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2- The university won the award for the best new participating university in the "UI Green Metric" global ranking of green universities, as the first Egyptian university to receive this award

Cairo University also achieved third place in Africa and 242 globally despite its first participation in preparing the first sustainability report for the year 2021 in 138 pages, including all efforts made to reduce the negative environmental impacts of the university. The report aims to provide a comprehensive view of the culture of sustainability on campus by summarizing The university's commitment to the environmental, social and economic aspects of sustainability, as well as revealing the extent of Cairo University's commitment to achieving the United Nations sustainable development goals and Egypt's Vision 2030.



3- The university won first place in the final competition of the International Urban Farming Competition 2022 Urban Far



6- Awards and world ranking of the university in the global ranking in the field of environmental sustainability and climate change

4- The university won first and third place in the Third Mediterranean Forum for Sustainable Green Architecture, organized by the World Council for Renewable Energy in cooperation with the University of Florence in Italy

5- Cairo university Won 6 prizes at the International Renewable Energy Competition 2021 in Lisbon, Portugal.



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