



Erciyes University

CLIMATE STRATEGY DOCUMENT

January - 2022

1. INTRODUCTION

Erciyes University cares about "Sustainable Environment" approach, education, research and development, social responsibility, environmental awareness and sustainability issues and carries out its activities with the aim of becoming a "Green Campus".

The results of the UI GreenMetric World Universities Ranking System 2021, which evaluates world universities in the fields of environmental awareness, energy, waste, transportation management and sustainability, have been announced. Our university ranked 99th among world universities, 3rd among 71 universities ranked among Turkish universities and 2nd among state universities in the ranking of 956 universities. In the UI GreenMetric ranking, which aims to draw attention to sustainability-related issues and raise global awareness about environmental awareness, our university increased its total score for 2021 from 7175 to 7775, while increasing its total score from 1100 to 1225 in the Building and Infrastructure category, from 1250 to 1400 in the Energy and Climate Change category, from 1200 to 1350 in the Waste category, from 1375 to 1425 in the Transportation category, and from 1425 to 1575 in the Education and Research category. In sustainability and environmental issues, significant steps have been taken in the areas of water use, energy saving, education and research, especially in the areas of waste and recycling with the 'Zero Waste Project'. Special studies on energy efficiency are being carried out.

Erciyes University provides both infrastructure and energy efficiency with its smart buildings under construction in the central campus and thermal insulation with environmentally friendly insulation materials.

The green campus policy has been made sustainable with efforts to protect and increase green areas and to increase water absorbing areas.

Erciyes University has created a pond with rain harvesting and this water source is used for irrigation of green areas. In addition, this pond and its surroundings have been developed to increase biodiversity and provide a valuable recreational area for the campus and our city.

Within the scope of the zero waste project, waste reduction programs, recovery and disposal of waste have been implemented.

It develops water saving programs and water recycling programs to ensure efficient use of water resources and prevent wastage.

In terms of transportation, ring applications are carried out for a smaller carbon footprint. In the field of education, courses and practices on sustainability, energy and waste are carried out in associate, undergraduate, master and doctoral programs.

2. PURPOSE

As one of the important educational institutions of our country and the world, it has the responsibility to make positive contributions and predictions in the development of environmental awareness in its region.

Erciyes University aims to establish an Environmental Sustainability policy and to carry out all necessary activities in accordance with this policy on the University campus. For this purpose, it has established an environmental sustainability strategy. University staff and students also have the necessary sensitivity and responsibility to support the determined sustainable environmental policy.

In its Climate Strategy Plan, Erciyes University has set the following targets for sustainability in the light of measurable parameters;

Supporting the social-cultural development of our region. Contributing to the social life of our region through artistic and cultural activities. Supporting sustainable economic development through the projects of research centers. Organizing need-based trainings for the people of the region. Protection of natural and cultural assets. Protection, maintenance and repair of historical buildings in our use. Participation in afforestation efforts in our region. Increasing the number of members of the Young TEMA community. Increasing the number of activities on environmental awareness and protection. Cooperation with national and international stakeholders working in this direction in order to ensure that the importance of the use of renewable energy sources is understood and adopted by our students; organizing trainings. Contributing to the protection of the ecosystem through the effective use of renewable energy solutions and setting an example for the environment.

3. POLICIES AND PROGRAMS

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With its natural and cultural sustainability policies, Erciyes University (ERU) aims to develop exemplary practices and approaches that can have an impact on the environment and cultural heritage, starting from the internal and external stakeholders of the institution, especially in the Central Anatolia region where the University is located. ERU sustainability policies are designed to be in line with the University's mission, vision and core values as well as the Policy on Community Contribution Goals and Principles.

Erciyes University aims to prioritize two areas with its sustainability policies. The first one is to support natural and cultural sustainability through education and research activities. Education programs at all levels include courses on environmental and cultural issues. ERU Scientific Research Projects Commission and ERU Scientific Research and Publication Ethics Commission give special importance and support to projects that prioritize sustainability.

Another area that ERU prioritizes in the context of sustainability is the protection and use of natural resources. Recognizing that energy, water, environment and food issues are interconnected, ERU pursues comprehensive and broad-perspective policies on these issues. It carries out activities to minimize its negative impacts on natural and cultural life, especially on its internal and external stakeholders. In this context, ERU takes the necessary measures and provides the necessary opportunities for internal and external stakeholders to play an active role, take initiative and contribute to sustainability efforts.

ERU has established a Sustainability Commission under the Rectorate to coordinate ERU's sustainability efforts by determining sustainability policies together with internal and external stakeholders. The Commission establishes, updates and oversees ERU's sustainability programs, prepares sustainability-related reports and shares them with the public.

4. ENERGY MANAGEMENT PROGRAM

Erciyes University develops practices and takes measures for the effective and efficient use of energy. It carries out studies to reduce total energy consumption. In this direction, it carries out activities to raise awareness of students, academic and administrative staff and supports these activities.

The University gives priority to reducing carbon emissions in transportation activities on campus. Electric vehicles are prioritized and tram, electric ring services, electric scooters and bicycles are used. Informative boards and signs about the energy management program are placed in various parts of the campus, and students, administrative staff and faculty members are regularly informed about this program.

In order to reduce carbon emissions on the Erciyes University campus, measures are taken to reduce vehicle entry and exit. In this framework, while the entrance of students' vehicles to the campuses is limited, bicycles, electric scooters and other vehicles that do not produce carbon emissions are encouraged to enter the campus. Bicycle parking lots have been created in appropriate places on the campus and made

available to students.

ERU strives to increase opportunities such as bicycle paths and pedestrian paths within the campus and in the region. It supports the efforts of local governments in this direction.

In order to reduce carbon emissions in transportation to the campus, ERU takes measures to facilitate remote access to the campus by faculty members and students and to support distance education, digital and online meetings. For this purpose, it utilizes educational technologies and facilities located in different locations.

Necessary measures have been taken to reduce carbon emissions for heating and conversion to natural gas system. For this purpose, priority is given to the design of new buildings taking into account natural heating and cooling possibilities, and to the heating of existing and historical buildings with energy sources with low carbon emissions in addition to natural heating possibilities. The use of natural gas is prioritized in all campuses, and unused indoor spaces are not heated. The use of air conditioners for cooling is limited.

Erciyes University takes initiatives, carries out projects and provides support to existing projects in this field for electricity generation from renewable energy (hydro, solar, wind and biofuel) within its means. In renewable energy production, it gives priority to structures and facilities that will not disrupt the natural and cultural structure of the region.

It makes use of saving devices in electricity consumption, especially lighting, and minimizes unnecessary and excessive lighting. It saves electricity consumption by utilizing photocells in closed areas that are not frequently used. In new building designs, the Company prioritizes projects that will benefit from the natural lighting and insolation features of buildings at a high level. In the illumination of historical buildings, as little illumination as possible is provided in order not to harm the cultural texture and the environment.

5. WATER MANAGEMENT PROGRAM

Erciyes University develops practices and policies that take into account water saving and water recycling within the scope of the climate strategy for the management of drinking and utility water and wastewater. ERU regularly monitors, reports and evaluates water use on campus. ERU shares the results with the public through the green campus website. ERU places informative boards and signs about the water management program in various parts of the campus and regularly informs students, administrative staff and faculty members about this program.

With rainwater harvesting practices, it reuses the water obtained and collected naturally. For this purpose, it allocates rainwater harvesting areas and constructs facilities in suitable locations. Permeable materials are used in construction and landscaping to allow rainwater to meet the soil.

ERU develops water saving practices to minimize the water used on campus. Devices and machines used throughout the campus have high water saving features. In this context, photocell applications in toilets and water

The aim is to reduce water consumption by helping to reduce consumption. In order to reduce water consumption in cleaning activities, necessary trainings are provided to the personnel and procedures are determined.

Necessary measures are taken to reduce the wastewater generated on campus, to remove toxic, chemical and biological pollution, and to reuse and recycle it into nature. ERU uses the water from rain harvesting to irrigate green areas, especially planted trees and plants. In order to ensure efficient irrigation, measures are taken to prevent evaporation of water and drip irrigation is used.

6. WASTE MANAGEMENT PROGRAM

Erciyes University takes necessary measures for the effective management of waste generated on campus. In this context, it develops practices and policies to minimize waste and supports projects in this direction. ERU regularly monitors, reports and evaluates waste generation across the campus and shares the results and evaluations with the public through the ERU green campus website. It places informative boards and signs about the waste management program in various parts of the campus and regularly informs students, administrative staff and faculty members about this program.

Erciyes University ensures that recycling bins are placed throughout the campus in order to reuse recyclable waste, and prefers recycled paper for paper use. Printing is always done on both sides of the paper. Supports the collection and recycling of all wastes, especially waste paper, in cooperation with local authorities. It takes necessary measures to reduce paper consumption, uses digital and electronically signed documents (E-Documents) and forms instead of printed and wet signed documents and forms, and emphasizes electronic mail and similar technological opportunities in communication and correspondence.

In order to reduce plastic waste, measures are taken to reduce the use of plastic packaging and bags. It is essential to use organic, environmentally friendly or recyclable materials in the bags used. Within the scope of the Zero Waste Project carried out by the Ministry of Environment and Urbanization General Directorate of Environmental Management, ERU has established a Zero Waste Management System. ERU prioritizes the use of recyclable and environmentally friendly materials to reduce waste within the framework of the Zero Waste Project and waste management program. Zero Waste and composting principles are taken into account in newly designed buildings.

ERU develops various practices to utilize the organic waste generated in its food production facilities for food production and agriculture. Food produced in excess of the need is delivered to those in need, while other wastes are disposed of through various techniques, especially composting. The organic products generated by this practice are used in plants and trees grown by ERU.

Environmental Management Process in Erciyes University Ziya Eren Pharmaceutical Application and Research Center (ERFARMA) is aimed to investigate the environmental dimensions of the environmental aspects of the activities carried out and planned activities and the stages to be carried out regarding the control of environmental pollutants that are likely to occur in environmental accidents. It is aimed and investigated to determine the environmental impacts, to determine the legal and other conditions, to ensure that the works carried out comply with the determined conditions. In addition, the Ecosystem considers the biological, physical and chemical system in which living things carry out their relations among themselves and with their inanimate environment in an orderly manner, and studies are continued in this context.

A waste management system has been established at the center for wastes generated within the scope of ERFARMA activities related to Waste Management and active notification and miss systems are carried out through the website. Within the scope of waste management practices, hazardous and non-hazardous waste areas have been established in accordance with the legislation and wastes are temporarily stored in these areas according to their characteristics.

ERFARMA delivers all broken, broken, end-of-life electronic products related to Electronic Wastes to licensed companies determined by the Rectorate.

Within the scope of air pollution control and air quality management related to Air Quality Management activities, ERFARMA is within the scope of facilities that are not subject to authorization according to the legislation since its thermal power (IG) is <1MW. However, emission sources are periodically determined for possible changes and measurements are made by an accredited organization for flue gas emissions. ERFARMA is responsible for evaluating the measurement results and keeping records, taking effective and applicable environmental control measures together with the measures to be taken, and is closely monitored.

Exhaust gas emission measurements of all motor vehicles used within ERFARMA are periodically checked by organizations with emission measurement authorization certificate. Evaluation and reporting of the measurement results, taking effective and applicable environmental control measures together with the necessary measures to be taken are monitored by the relevant unit of the Rectorate of Erciyes University.

The results of measurements made within the scope of air pollution control and air quality management arising from ERFARMA's activities are kept by the Directorate. All permits (EIA, Environmental Permits, Channel Connection, etc.) arising from ERFARMA activities are monitored with the Monitoring Measurement Plan (CV) in line with environmental legislation, and the Current Legislation List (CV) and Legal Compliance Monitoring Table (CV) are reviewed and updated by the Process Responsible every 6 months.

7. CULTURAL SUSTAINABILITY PROGRAM

Erciyes University attaches great importance to cultural sustainability in its education, research and social contribution activities. In this context, it takes the necessary measures to protect Turkey's cultural heritage, especially the Kültepe Archaeological Site (Kültepe-Kaniş-Karum Ruins) and Koramaz Valley, which are among the most important parts of the world cultural heritage, to support local traditions and to transfer them to the next generations, to carry out projects in this direction and to support existing projects.

ERU carries out its activities in newly constructed buildings as well as historical buildings that are part of the cultural heritage of the region. ERU utilizes the existing building stock in the region as much as possible, pays attention to the conservation-utilization balance of historical buildings, and restores them in accordance with the original after obtaining the necessary permits. In the infrastructure works carried out in the buildings, efforts are made to protect and emphasize the historical and cultural texture. It is ensured that the materials used in the restoration of historical buildings are recyclable or previously used materials or obtained from local sources.

ERU prioritizes or supports projects that will support regional development in sectors such as tourism and agriculture. In addition, ERU takes measures to minimize the impact of university life, education and training activities, and research and development efforts on local and natural life.

8. RESOURCES FOR SUSTAINABILITY ACTIVITIES

Erciyes University allocates resources from the Erciyes University budget for the realization of the sustainability goals included in the Strategic Plan, the goals included in the Community Contribution Goals and Principles Policy and the goals for sustainability included in this policy. It also allocates resources to create a website on sustainability and to keep this website up-to-date.

A budget is allocated each year for sustainability activities. It follows the calls for projects on sustainability, especially the European Union and TUBITAK, and encourages faculty members to participate in projects initiated or carried out within the scope of sustainability.

9. SUSTAINABILITY ACTIVITIES STAFF

Erciyes University has established a Sustainability Commission Board with the participation of various academic and administrative units to carry out sustainability activities. The Board is tasked with coordinating the sustainability-related activities of the University, ensuring the creation and updating of the University's sustainability policy, making suggestions regarding the programs to be implemented, ensuring that the sustainability website of the University is updated and the necessary information is shared with the public, and ensuring that the necessary information is collected within the scope of the programs included in this policy document and shared with the public in the periods determined by the Rectorate.

In order to carry out the sustainability activities of Erciyes University, the Sustainability Office was established within the Corporate Data Management and Analytics Coordinatorship and started its activities. Within the scope of its activities, the Sustainability Office provides comprehensive assistance in data collection activities related to information, documents and documentation in the work of the Sustainability Commission Board of Erciyes University. Within the framework of these activities, in order to take a more active role in the studies carried out with the slogan of livable campus and sustainable world, our Sustainability Student Community has started its activities within Erciyes University.

Erciyes University, sustainable environmental policy includes the following objectives.

1. Compliance with international environmental standards.
2. Compliance with state development plans and regulations.
3. Training and informing university staff and students.
4. Pollution prevention,
 - * Reducing waste from all units of the university,
 - * Adoption of waste-free practices.
5. Waste Management,
 - * Establishment and implementation of the University's integrated waste management,
 - * Preparation and implementation of projects for waste recovery, reuse and transformation.
6. Preservation of ecological balance,
 - * Increasing green areas and trees,
 - * Protection of wildlife.
7. Reducing emissions,

- * Encouraging and providing opportunities for staff and students to be transported by public transportation, cycling or walking.
8. Saving energy, exploring renewable energy sources,
 - * Energy-efficient construction or renovation of buildings,
 - * Creation of central cooling and heating systems in buildings,
 - * Cladding buildings with appropriate building materials that prevent heat loss.
 9. Taking measures to reduce water use,
 - * Use of sensor faucets,
 - * Recording water use and preventing leakages.
 10. Including courses on environmental sustainability in all of the university's education programs.
 11. Promoting and encouraging the practices carried out within the scope of environmental sustainability to the community and ensuring the participation of the community.
 12. Establishment of student clubs, ensuring student participation in practice.
 13. Supporting sustainable environmental projects proposed by students and researchers.
 14. Continuously audit and improve environmental management practices.
 15. To ensure continuity of practices by communicating with stakeholders who can assist in environmental management.
 16. Ensuring internal organization and collaboration for the realization of the University's Environmental Sustainability policies.
 17. Maintaining and updating the environmental sustainability policy.