



ÇANAKKALE ONSEKİZ MART UNIVERSITY

CLIMATE ACTION PLAN

2024-2030



2024-SEPTEMBER

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Message from our Rector Prof. Dr. Ramazan Cüneyt ERENOĐLU

Çanakkale Onsekiz Mart University (ÇOMÜ) continues its mission to raise competent individuals with a contemporary, sustainable and inclusive education approach, and to contribute to society at national and international levels with scientific knowledge/technologies as well as cultural, sportive and artistic activities. In order to combat the effects of the global climate crisis on the world, as ÇOMU, we aim to fulfill our social responsibilities in the light of science and to educate future sustainability leaders, practitioners and decision makers who can play a role in solving environmental problems. Our university continues to work to reduce the environmental impact of our university by spreading sustainability practices to combat climate change.

The Draft Climate Action Plan (2024-2030), prepared under the coordination of the Sustainability Office Coordinatorship and with the cooperation of the Sustainability Commission members, was opened to the opinions of our stakeholders at the workshop held on September 13, 2024 at Dardanos Campus with the participation of our internal and external stakeholders. Çanakkale Onsekiz Mart University Climate Action Plan (2024-2030), which was revised and finalized in line

with the opinions at the workshop, includes the university's strategies and initiatives for the main themes of Energy Efficiency and Renewable Energy, Transportation, Waste Management, Water Conservation, Ecosystems and Biodiversity, Buildings and Infrastructure, Research and Education. This plan is a document of our university's determination to protect the welfare of future generations with the measures it takes to ensure sustainability in both education and research activities and campus life, and the plans it makes for the future.

With the Climate Action Plan, our university aims to spread environmentally friendly practices, reduce its carbon and water footprint by prioritizing energy and water savings, turn to renewable energy sources, offer a campus life within the framework of zero waste principles, use sustainable practices in transportation, buildings and infrastructure, protect biodiversity, integrate issues related to climate change and sustainability into existing curricula in education, conduct innovative studies in research within these scopes, and inform the society and raise awareness by organizing conferences, seminars and events. This plan will be a strategic guide that will not only ensure environmental sustainability but will also provide added value to our university with its economic and social dimensions.

I firmly believe that this plan will inspire not only our university but also our stakeholders and all segments of society as we set out to contribute to the goal of leaving a more livable world for future generations. We need to review our corporate practices, training programs, research topics, events and activities in line with the Climate Action Plan. I invite all our units, academic/administrative staff, students and stakeholders to work together for the implementation of the Climate Action Plan of our university; I would like to thank all our stakeholders who contributed to the finalization and implementation of the plan.

Prof. Dr. R. Cüneyt Erenođlu

Rector

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1. INTRODUCTION

Addressing the effects of climate change on nature, society and economy is one of the most important global issues of our time. While international efforts continue to reduce greenhouse gas emissions that cause global warming and climate change, adopting the principle of sustainability is crucial for the world to overcome the environmental, economic, and social crises it faces. The widespread adoption of sustainability solutions and practices makes it possible to create resilient cities and communities that mitigate the effects of climate change and adapt to changing conditions.

Türkiye became a party to the Paris Agreement in 2021, which regulates efforts to limit global temperature rise to 1.5°C and announced a "Net Zero Emissions" target for 2053. To define Türkiye's climate change mitigation goals for the upcoming period and design activities accordingly, the Ministry of Environment, Urbanization, and Climate Change has prepared the "Climate Change Mitigation Strategy and Action Plan 2024-2030" and the "Climate Change Adaptation Strategy and Action Plan" with stakeholder participation. These documents outline a roadmap for tackling climate change until 2030 and present strategies and action plans within this framework.

Aligned with the Sustainable Development Goals (SDGs) adopted by the United Nations in 2015, Türkiye aims to achieve the 17 main objectives by the end of 2030. Efforts to reduce climate change and adapt to its effects inherently intersect with the objectives of sustainable development.

Universities play a vital role in shaping future generations and are leading examples of sustainability and climate action during this period when global and local challenges appear. Çanakkale Onsekiz Mart University has emerged as a pioneer in integrating sustainability into its institutional framework. Through strategic initiatives and partnerships, our university aims to implement comprehensive sustainability practices throughout its campuses and operations.

The Sustainability Office Coordination, which was established in 2023 at Çanakkale Onsekiz Mart University (ÇOMÜ), aims to promote sustainability among all stakeholders and units of the university and to develop innovative solutions focusing on sustainable development goals. (<https://sustainability.comu.edu.tr/>). Aligned with ÇOMU's mission to be a leading university contributing to science, technology, art, sports, and culture, the Sustainability Office guides the creation and implementation of policies and strategies consistent with sustainability principles across all university units. It also facilitates coordination, provides awareness training, collects institutional data, and prepares sustainability reports.

ÇOMU's sustainability policy integrates environmental, economic, and social principles into decision-making processes and corporate activities while promoting sustainability practices (<https://kalite.comu.edu.tr/surdurulebilirlik-politikasi-r121.html>). A core principle is to ensure the continuity of awareness of the United Nations Sustainable Development Goals in education, research development, social contribution, and administrative activities. Strengthening collaborations with University-Public-Industry-NGOs for sustainability practices and conducting green campus studies that include responsible use of resources, energy efficiency, waste, and water management to reduce water and carbon footprint are also within the scope of the University's sustainability policy. The Sustainability Office coordinates these efforts and is responsible for developing policies and managing actions related to "Climate Action," which aligns with the 13th Sustainable Development Goal.

For the 2024-2030 period, the Sustainability Office has prepared the Çanakkale Onsekiz Mart University Climate Action Plan, aiming to coordinate and guide the implementation of sustainability approaches regarding climate change action throughout the university. The Climate Action Plan, whose initial draft was prepared by the Sustainability Coordination Office and outlined the activities planned under the themes of "Energy Efficiency and Renewable Energy, Transportation, Waste Management, Water Efficiency, Ecosystems and Biodiversity, Buildings and Infrastructure, Education and Research," was shared with the Sustainability Commission during a meeting held on Wednesday, August 21, 2024, and initial feedback was collected. A "Climate Action Plan Workshop" was organized to finalize the plan with a more inclusive approach by gathering input from all internal and external stakeholders (Figure 1). We extend our thanks to all internal and external stakeholders who participated in the workshop held on September 13, 2024, at ÇOMU Dardanos Campus and contributed to the preparation process of the Climate Action Plan. Çanakkale Onsekiz Mart University Climate Action Plan came into force with the senate decision dated 24.10.2024 (Appendix).

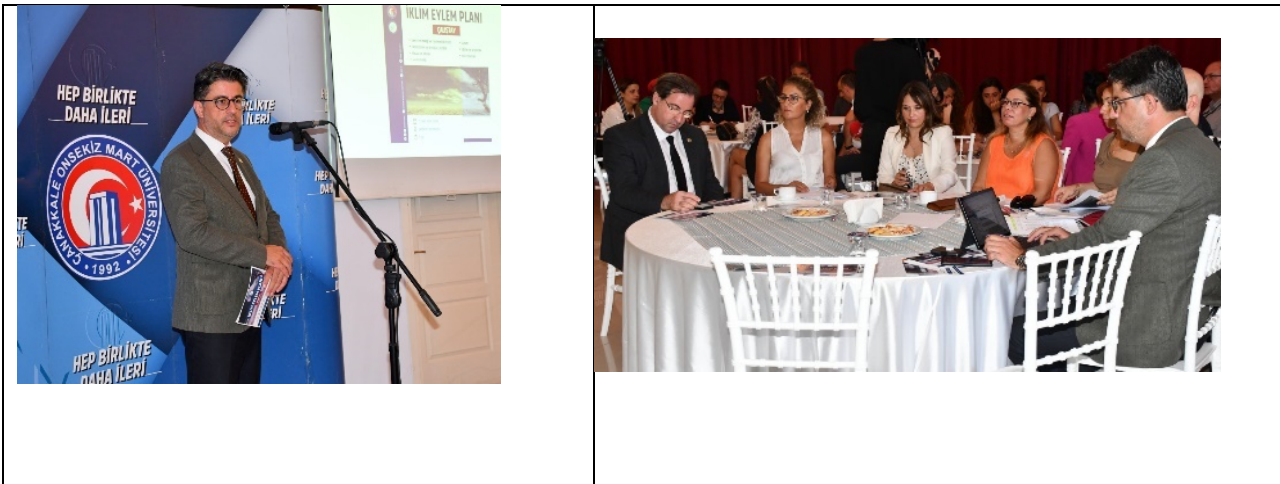


FIGURE 1. Climate Action Plan Workshop held on 13th September 2024

2. SCOPE AND OBJECTIVES

Çanakkale Onsekiz Mart University (ÇOMU) was established in 1992 and houses nearly 48,000 students, 2,000 qualified academics, and 2,300 administrative personnel. ÇOMU incorporates 21 faculties, two colleges, 13 vocational schools, 45 research centres, a graduate school, and a university hospital on 19 campuses. Çanakkale Onsekiz Mart University's main and largest campus is in the central district of Çanakkale, known as Terzioğlu Campus (Figure 2) which spans approximately 3 hectares of land. Together with the University Hospital, this campus houses 13 faculties, 3 vocational schools, numerous research centers, a kindergarten, laboratories, a main library, social facilities, and rectorate buildings. Additionally, Çanakkale central district hosts eight separate campuses of ÇOMU. Among the campuses located in other districts of Çanakkale, the largest is the Ramazan Aydın Campus in Biga district. There are also vocational school campuses in Ayvacık, Bayramiç, Çan, Ezine, Gelibolu, Gökçeada, Lapseki, and Yenice districts. Since the Terzioğlu campus is the largest, the strategies and actions outlined in the climate action plan will be initially implemented here and then expanded to other campus areas.

The Climate Action Plan for Çanakkale Onsekiz Mart University (ÇOMU) outlines determined goals and strategic initiatives aimed at addressing climate change and promoting sustainability across its campuses. These goals and strategies are aligned with ÇOMU's broader commitments to sustainability, serving as a framework for integrating environmental stewardship into all facets of university operations and fostering a culture of sustainability among students, academics, and staff.



ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ TERZİOĞLU YERLEŞKESİ



- | | | |
|---|---|---|
| 1.Main Entrance | 13. Parking Lot | 22.Troia Cultural Center |
| 2.Second Entrance | 14. Central Library | 23.Faculty of Engineering |
| 3.Third Entrance | 15.Faculty of Political Science / Turkish Teaching Application and Research Center | 24.Faculty of Fine Arts / Faculty of Architecture and Design / Faculty of Communication |
| 4.ÇOMÜ Hospital | 16.Science and Technology Application and Research Center | 25.Faculty of Sports Sciences |
| 5.Experimental Research Application and Research Center | 17.Faculty of Agriculture | 26.ARDES Dormitory-Social Facility |
| 6.Faculty of Medicine Dean's Office | 18.Faculty of Science / Faculty of Humanities and Social Sciences | 27.Credit and Dormitories Institution |
| 7.ÇOMÜ Daycare | 19.ATMs | 28.Çanakkale Vocational School of Social Sciences / Çanakkale Vocational School of Technical Sciences |
| 8.18 Mart Hatime Main Mosque | 20.Student Social Activity Center | 29.School of Foreign Languages / Faculty of Health Sciences |
| 9.Hasan Mevsuf Sports Hall | 21.Faculty of Marine Sciences and Technology Faculty of Applied Sciences of Çanakkale | 30.Vocational School of Health Services |
| 10.Yamac Cafe | | 31.Campus Cafeteria |
| 11.Rectorate Bloek A and Bloek B (Student Affairs) | | |
| 12.Faculty of Tourism | | |

FIGURE 2. Map of Çanakkale Onsekiz Mart University Terzioğlu Campus

In the scope of the climate action plan three main objectives were determined. These objectives aim to establish a structured approach towards mitigating carbon footprints and advancing sustainability goals within ÇOMU:

- **Generating and monitoring carbon emission inventory:** Conducting comprehensive assessments to quantify carbon emissions across ÇOMU campuses and facilities. It is important to understand the university's environmental impact comprehensively.
- **Implementing carbon emission reduction strategies:** Implementation of carbon reduction strategies is prioritized, focusing on enhancing energy efficiency, promoting renewable energy sources, optimizing transportation systems, improving waste management practices, conserving water resources, protecting ecosystems and biodiversity.
- **Carbon neutrality target for ÇOMU campuses:** Working towards achieving carbon neutrality across ÇOMU campuses by implementing sustainable practices, enhancing renewable energy use, and offsetting remaining emissions through appropriate measures. This target has been determined as a long-term and ultimate target that will be carried beyond the 2024-2030 period.

Management and Coordination

The effective implementation of the Climate Action Plan requires significant coordination within the University for policy-making and reinforcing the University's environmental and sustainable actions. Therefore, the governance structure for the Çanakkale Onsekiz Mart University Climate Action Plan consists of:

- 1) Çanakkale Onsekiz Mart University Rectorate
- 2) Advisory Board (Sustainability Commission)
- 3) Sustainability Office
- 4) Implementers

The Çanakkale Onsekiz Mart University Rectorate is responsible for overseeing the implementation of the Climate Action Plan university-wide, organizing tasks and responsibilities accordingly. The Advisory Board (Sustainability Commission) includes academic, technical, and administrative members who provide recommendations on the goals and activities outlined in the Climate Action Plan. The Sustainability Office is responsible for the continuous monitoring of the Climate Action Plan and reporting on the status of plan objectives. Implementers include Deans of Faculties, Directors of Institutes, Directors of Schools, Directors of Research Centers, Vice Rectors, the General Secretariat, and Department Heads.

To ensure effective management and coordination, the steps foreseen to be carried out under each theme included in the content of the climate action plan are outlined as follows:

- Establishment of a data collection system and gathering relevant data: A data system should be created to collect numerical data showing the results of all proposed actions aimed at reducing carbon emissions, ensuring water and energy efficiency, and achieving the zero-waste goal, especially within the themes of Energy, Water, and Waste Management on ÇOMU campuses. The relevant units must ensure the effective use of this system.

- Annual evaluation and analysis of the targets proposed in the Climate Action Plan, and reporting of results: Through the established data management system, annual evaluations will be conducted to obtain concrete findings on both the success rates of the actions and areas that need improvement. These results will be communicated to relevant managers and units.

- Providing guidance to units involved as implementers under each theme during the action implementation process: It is important that the Sustainability, Green Transformation, Digital Transformation, and Social Responsibility coordination offices, along with the Office of The Dean of Research provide guidance to the units in implementing the actions and carry out supervision and monitoring to improve efforts.

- Financial Analysis: The implementing units should calculate the necessary budgets for the actions they aim to implement within the scope of the climate action plan. To facilitate the more efficient and rapid execution of actions, it is important to explore national and international funding opportunities and establish local partnerships with the public sector, Non-Governmental Organisations (NGOs), and industry.

- Technical Working Group: Many of the actions defined within the framework of the Climate Action Plan fall within the working scope of the Directorate of Construction and Technical Affairs. Therefore, it would be beneficial to establish a working group composed of engineers and technicians, particularly within this directorate, to oversee the implementation of these actions.

3. STRATEGIES, GOALS and ACTIONS

Under seven themes, various strategies for reducing carbon emissions have been adopted and actions for their implementation at ÇOMU have been identified. By incorporating these strategies into a comprehensive climate action plan, COMU seeks to lower its carbon footprint and inspire the next generation of sustainability leaders.

The Sustainability Office has started to collect data on parameters such as carbon emission levels, waste, and water consumption on ÇOMU campuses. To collect accurate and consistent data at Terzioğlu and other campuses, establishing collaborations and creating a data management system has been determined as the primary goal. In this context, since the University's carbon emission inventory has not yet been completed, a study will be conducted to fully understand the current situation. It is a priority to calculate and monitor the total carbon emissions from campus operations, including Scope 1, Scope 2, and Scope 3, and to track the effectiveness of carbon reduction strategies.

a. Energy Efficiency and Renewable Energy

Key strategies and initiatives that can be taken to incorporate energy efficiency and renewable energy initiatives into the University's climate action plan are as follows:

1. Energy Audits and Efficiency Measures
2. Implementation of Energy Efficiency Measures
3. Building Standards and Retrofits
4. Renewable Energy Integration
5. Smart Energy Management
6. Monitoring and Reporting

Our university is a stakeholder of the Re-You project, which is funded by the EU and Türkiye and carried out by the South Marmara Development Agency. The project aims to transform the South Marmara Region, which has significant potential for renewable energy sources, into one of the world's leading education and career centers in this field (<https://reyouproject.org/>). Additionally, under the Public and Municipal Renewable Energy Project (KAYEP), supported by the Ministry of Environment,

Urbanization and Climate Change and the World Bank, an application has been submitted for the Solar Energy Power Plant Project at the Terzioğlu Campus which will generate 94,400 MWh of electricity annually (<https://www.comu.edu.tr/haber-21946.html>). After the project's approval, the installation of a solar power plant is planned. In this context, the contribution of energy produced from renewable sources to total energy consumption will be evaluated. Our university will continue its efforts to expand renewable energy systems across our campuses. Table 1 summarizes the implementation guidelines for energy efficiency and renewable energy in our campuses.

Table 1. Implementation guidelines for energy efficiency and renewable energy

Strategies	Goal - Action	Implementer	Monitoring and Performance Indicators
Energy Audits and Efficiency Measures	Data collection from the campus buildings, labs and facilities for the assessment of the campus energy consumption and conducting comprehensive energy audits to identify opportunities for improving energy efficiency across campus buildings and facilities Monitoring the electricity usage of devices and ensuring the preference for energy-efficient devices in new acquisitions.	Construction Works and Technical Department Energy Resources Application and Research Center Digital Transformation Office All units	Creating a database of energy-consuming devices and energy use in the campuses.
Implementation of Energy Efficiency Measures	Implementing energy-efficient lighting, HVAC (Heating, Ventilation, and Air Conditioning) systems, insulation, and windows can reduce energy consumption and operational costs. Regular maintenance of heating and cooling systems. Ensuring that radiators are not obstructed. Turning off electronic devices when not in use. Promoting the use of reape batteries (storage areas).	All units	Number of energy audits conducted annually. The percentage reduction in energy consumption compared to baseline. Monitoring the reduction in costs due to energy efficiency projects.
Building Standards and Retrofits	Monitoring green building standards (such as LEED - Leadership in Energy and Environmental Design certification) for new construction and major renovations. Upgrading existing buildings with energy-efficient technologies (such as LED bulbs) and sustainable materials to enhance overall building	Construction Works and Technical Department All Units	Total number of buildings retrofitted to meet new energy standards. Calculate the energy consumption per square meter of the building space to evaluate energy efficiency improvements. Total energy savings achieved through efficiency measures (e.g., LED lighting, HVAC upgrades).

	<p>performance and reduce carbon emissions.</p> <p>Painting building interiors white and making appropriate curtain selections based on sunlight.</p> <p>Transitioning to sensor-based systems and implementing monitoring systems.</p> <p>Developing approaches to reduce carbon footprint in purchasing processes and establishing local supply chains and service provider networks.</p> <p>Preferring local and sustainable construction materials in construction and repair projects.</p>		<p>Calculate financial savings resulting from reduced energy consumption due to efficiency improvements.</p>
Renewable Energy Integration	<p>Actions for transitioning to renewable energy systems:</p> <p>Construction of renewable energy project implementations and integration into campus activities.</p> <p>Creating research programs and supporting theses and projects related to renewable energy, energy efficiency, energy storage solutions, smart systems, etc.</p> <p>Conducting studies related to hydrogen energy.</p>	<p>Construction Works and Technical Department</p> <p>Energy Resources Application and Research Center</p> <p>Scientific Research Projects Coordination Unit</p> <p>Office of The Dean of Research</p> <p>School of Graduate Studies</p> <p>All Units</p>	<p>Monitoring the total installed capacity of renewable energy systems on campus.</p> <p>Track the total amount of the energy generated from renewable sources.</p> <p>Calculation of the proportion of campus energy consumption that is provided by renewable energy sources and monitoring the proportion annually.</p> <p>Monitoring the reduction in costs due to renewable energy projects.</p> <p>Monitoring the number of publications, projects, theses, and patents related to sustainable energy.</p>
Smart Energy Management	<p>Implementing smart energy management systems to monitor and optimize energy usage.</p> <p>Accelerating digitalization in appropriate areas and conducting routine meetings online whenever possible.</p>	<p>Construction Works and Technical Department</p> <p>Digital Transformation Office</p>	<p>Monitoring system data.</p>
Monitoring and Reporting	<p>Set up a system to monitor progress related to energy efficiency and renewable energy goals</p>	<p>Digital Transformation Office</p> <p>Energy Resources Application and Research Center</p>	<p>Annual sustainability report will be published and data including energy consumption, the progress in renewable energy adoption and carbon footprint reduction will be followed.</p>

b. Transportation

Key strategies and initiatives that can be taken for transportation are as follow. Table 2 summarizes the implementation guidelines for transport.

1. Promoting Active Transportation
2. Improving Public Transportation Access
3. Transitioning to Electric Vehicles (EVs)
4. Ridesharing Programs
5. Zero Emission Zones
6. Preventing vehicle parking on campus
7. Implementing Smart Mobility

Table 2. Implementation guidelines for transport

Strategies	Goal - Action	Implementer	Monitoring and Performance Indicators
Promoting Active Transportation	<p>Providing safe and convenient bike lanes and pedestrian-friendly pathways to encourage walking and cycling.</p> <p>Offering incentives, such as bike-sharing programs to promote these modes of transport.</p>	<p>Construction Works and Technical Department</p> <p>Digital Transformation Office</p> <p>Green Transition Office</p>	<p>Number of new bike lanes, bike racks, pedestrian-friendly pathways, etc., implemented.</p> <p>Measure the percentage of campus community who cycle or walk</p> <p>Track the occupancy rate of bicycle racks on campus to assess the adequacy of cycling infrastructure.</p>
Improving Public Transportation Access	<p>Providing shuttle services between campus locations and nearby public transit hubs enhances the accessibility of public transportation.</p> <p>Anafartalar and Terzioğlu are the two campuses that academic and administrative staff visit most frequently. A rapid public transportation model can be developed on this route. In this context, cooperation can be made with local authorities.</p> <p>Conducting studies to improve public transportation services across all campuses</p>	<p>Administrative and Financial Affairs Department</p> <p>Green Transition Office</p> <p>Local authorities</p>	<p>Number of bus stops, and accessibility features added or improved.</p> <p>Improvement in public transportation service frequency and reliability.</p> <p>Monitor the proportion of students, faculty, and staff who use public transportation to commute to campus.</p> <p>Regularly assess the accessibility of all transportation options for individuals with disabilities or other mobility challenges.</p> <p>Track the average occupancy rate of campus shuttles to optimize routes and frequency.</p>

			Track the punctuality of the campus shuttles
Transitioning to Electric Vehicles (EVs)	<p>Installing EV charging stations across campus to support electric vehicle use among students, faculty, and staff can encourage sustainable transportation choices.</p> <p>Facilitating the transition to electric vehicles in the university fleet</p>	<p>Administrative and Financial Affairs Department</p> <p>Construction Works and Technical Department</p>	<p>The number of electric vehicle charging stations established on campus.</p> <p>Monitoring the number of electric vehicles entering the university or utilizing the electric charging stations.</p> <p>Tracking the number and percentage of electric vehicles in the university fleet.</p>
Zero Emission Zones	Establish low-emission or car-free zones on campus to reduce vehicle traffic in key areas.	<p>Construction Works and Technical Department</p> <p>Administrative and Financial Affairs Department</p>	Monitor daily vehicle traffic
Ridesharing Programs	<p>Developing online platforms or mobile applications for car sharing to reduce the number of single-occupancy vehicles on campus.</p> <p>Implementing these ridesharing programs between the main campus and district campuses appears to be particularly advantageous.</p>	Digital Transformation Office	<p>Number of participants enrolled in ridesharing programs.</p> <p>The number of users utilizing ride-sharing programs.</p>
Preventing vehicle parking on campuses	Implementing parking pricing to discourage unnecessary vehicle trips.	Administrative and Financial Affairs Department	<p>Number of the vehicles parking inside the campus</p> <p>Track the percentage of parking spaces occupied on an average day to assess parking demand and effectiveness of parking management strategies.</p> <p>Track the number of traffic-related incidents on campuses, aiming to reduce them over time.</p>
Implementing Smart Mobility	Develop a campus mobility app to provide real-time information on public transit, shuttle schedules, bike availability, and parking.	Digital Transformation Office	Number of the app users

c. Waste Management

The Terzioğlu Campus, which is the main campus of Çanakkale Onsekiz Mart University, and the Biga Ramazan Aydın Campus, one of the largest campuses in the districts, have received the Basic Level Zero Waste Certificate (<https://sifiratik.comu.edu.tr/>). Our university is working to implement the zero waste system more effectively across all its campuses. Training on zero waste will be regularly conducted for all staff and students each year. The Zero Waste Commission (<https://sifiratik.comu.edu.tr/>) coordinates waste management activities in accordance with regulations (<https://mevzuat.comu.edu.tr/detay.php?sayino=21/03-1109>). Procedures for the collection and disposal of hazardous waste are managed by the Directorate of Administrative and Financial Affairs. Table 3 summarizes the implementation guidelines related to waste management. The fundamental strategies and initiatives that can be adopted for waste management are as follows:

1. Waste Audits and Assessments
2. Source Reduction and Minimization
3. Comprehensive Recycling Programs
4. Reuse and Donation Programs
5. Hazardous Waste Programs

Table 3. Implementation guidelines for waste management

Strategies	Goal - Action	Implementer	Monitoring and Performance Indicators
Waste Audits and Assessments:	<p>Conducting waste audits to understand the composition and volume of waste generated on campus. This data can inform waste reduction strategies and prioritize areas for improvement.</p> <p>Developing guidelines to ensure all campus events are zero waste.</p>	<p>Zero Waste Commission</p> <p>Green Transition Office</p>	<p>Number of waste audits conducted annually.</p> <p>Percentage breakdown of different types of waste (recyclables, organics, etc.).</p> <p>Amount of waste generated per capita or per area or per event.</p>
Source Reduction and Minimization:	<p>Implementing policies and practices to minimize waste generation at the source. This includes promoting reusable alternatives to single-use items (e.g., reusable water bottles, coffee cups) and encouraging sustainable purchasing practices.</p> <p>Promoting digital alternatives to paper in classrooms, offices, activities or campus events.</p> <p>Adding criteria to prioritize commercial enterprises operating on</p>	<p>All units, staff and students.</p> <p>Commercial Enterprises on Campus</p>	<p>Percentage reduction in overall waste generation compared to baseline.</p> <p>Percentage of recommended waste reduction measures implemented.</p> <p>Ratio of waste generated to campus activities (e.g., waste per student, waste per event).</p> <p>Monitor the percentage of materials purchased by the</p>

	<p>university campuses that adopt energy/resource efficiency, implement zero waste, and deposit systems.</p> <p>Encouraging the reduction of single-use materials.</p> <p>Establishing a system that calculates the carbon footprint of purchased products and services, and prefers suppliers with a low carbon footprint based on this information.</p>		university that contain recycled content
Comprehensive Recycling Programs:	<p>Establishing robust recycling programs for paper, plastics, metals, glass, and other recyclable materials across campus buildings.</p> <p>Providing clear signage, convenient recycling bins, and educational outreach for enhancing participation.</p> <p>Increase numbers of the recycling collection stations</p> <p>Transitioning to a deposit-refund system</p> <p>Partnering with certified e-waste recyclers for recycling of electronic equipment.</p> <p>Recycling and selling paper waste</p> <p><i>* There is no need for additional composting work at the university, since compost and biogas are generated from organic waste at the Çanakkale Municipality Integrated Solid Waste Management Facility. In addition, organic wastes can be collected in canteens and cafeterias and offered to stray animals and birds in appropriate places.</i></p>	<p>Zero Waste Commission</p> <p>Green Transition Office</p>	<p>Percentage of total waste diverted from landfill through recycling.</p> <p>Amount and types of materials recycled (paper, plastics, metals, etc.).</p> <p>Number and distribution of recycling bins across campus.</p> <p>Percentage of electronic waste collected for recycling or reusing</p> <p>Track the financial savings due to waste recycling.</p> <p>Monitoring the amount of waste and financial gains through a deposit system.</p>
Reuse and Donation Programs:	<p>Establishing donation centers or swap events where students and staff can donate or exchange reusable items such as clothing, books, and electronics.</p>	<p>Social Responsibility Projects Office</p> <p>Green Transition Office</p>	<p>Amount and types of items reused or donated (furniture, electronics, clothing, etc.).</p> <p>Participation rates in reuse and donation events or programs to understand community engagement.</p> <p>Track the financial savings due to reuse and donation services.</p>
Hazardous Waste Programs	<p>Increasing awareness about hazardous waste and ensuring that it is collected more effectively and disposed of according to regulations.</p>	<p>Administrative and Financial Affairs Department</p> <p>Occupational Health and</p>	<p>Track the amount/type of hazardous waste collected.</p>

		Safety Department	
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d. Water Efficiency

There is a lack of data regarding water usage, similar to other themes. Addressing these data collection deficiencies is a priority. The fundamental strategies and initiatives related to water efficiency are listed below, along with a summary of the implementation guidelines for water efficiency on our campuses (Table 4).

1. Efficient Irrigation Systems
2. Water-Saving Fixtures
3. Leak Detection and Repair
4. Water Measurement and Monitoring
5. Drinking Water Units
6. Rainwater Management
7. Reuse of Treated Wastewater
8. Installation of Greywater Systems
9. Reporting and Transparency
10. Climate Adaptation and Resilience

Table 4. Implementation guidelines for water efficiency

Strategies	Goal - Action	Implementer	Monitoring and Performance Indicators
Efficient Irrigation Systems:	Implementing smart irrigation systems that use weather data and soil moisture sensors to optimize watering schedules and reduce water consumption for campus landscapes and gardens.	Construction Works and Technical Department	Percentage reduction in water use for irrigation compared to baseline.
Water-Saving Fixtures	Installing water-efficient fixtures such as low-flow faucets and toilets in campus buildings to minimize water consumption.	All Units Construction Works and Technical Department	Number of water-efficient fixtures installed. Volume of water saved annually due to fixture upgrades.
Leak Detection and Repair:	Regularly inspecting campus plumbing systems for leaks to prevent water loss and minimize wastage.	Construction Works and Technical Department	Percentage of identified leaks repaired within a specified timeframe. Volume of water saved through leak detection and repair efforts.

Water Metering and Monitoring:	<p>Installing water meters to monitor usage across campus buildings and facilities.</p> <p>Analysing water consumption data to identify opportunities for further conservation and efficiency improvements.</p>	Construction Works and Technical Department	<p>Number of water meters installed across campus to monitor consumption.</p> <p>Regular reporting of water consumption data.</p> <p>Tracking water footprint</p>
Drinking Water Units	<p>Providing free (or low-cost) and clean drinking water through several water dispensers to reduce plastic water bottle waste and also secure equal access to healthy water.</p>	All Units Construction Works and Technical Department	<p>Number and distribution of drinking water units (fountains, refill stations, etc.) across campus.</p> <p>Frequency of use or refills per unit to assess demand.</p> <p>Regular testing of drinking water quality.</p>
Rainwater Management	<p>Install rainwater harvesting systems, green roofs, rain gardens, permeable pavements etc. in newly constructed buildings and areas to manage rainwater on campus and reduce runoff.</p> <p>Reuse options should be integrated to the existing and planned water systems.</p> <p>Implement erosion control measures, such as planting native vegetation, to reduce sediment runoff into rainwater systems.</p>	Construction Works and Technical Department	Monitoring the number of infrastructure systems used in rainwater management
Reusing treated wastewater	<p>The reuse of treated wastewater from the on-site treatment facility within the campus is connected to municipal wastewater treatment plants for the central campuses. Therefore, the actions in this scope will be implemented in Biga and other district campuses.</p>	Construction Works and Technical Department	The volume of the reused wastewater
Installing of greywater systems	<p>Install greywater systems for newly planned buildings to reuse water from sinks, showers, and washing machines in toilet flushing etc.</p>	Construction Works and Technical Department	The volume of the recycled wastewater
Reporting and Transparency	<p>Publishing water use data, conservation efforts and progress towards goals in sustainability report.</p> <p>Installing real-time water use dashboard.</p> <p>Establish channels for the campus to provide feedback on water management practices and suggest improvements in the systems.</p>	Sustainability Office Coordinatorship Construction Works and Technical Department	<p>Monitor total water use, water use per capita, reduction in water use, water savings from retrofits, rainwater harvesting capacity, stormwater runoff reduction due to green infrastructure, greywater use, recycled water use, irrigation water use, percentage of native/drought resistant plants, cost saving etc. and report all data in the Sustainability Report</p> <p>Water use audits</p> <p>Cost benefit analyses</p>

Climate adaptation and resilience	<p>Develop an emergency water management plan to ensure continuity of operations during water shortages or natural disasters.</p> <p>Plan alternative water sources during an emergency.</p> <p>Ensure that water infrastructure is resilient to climate change impacts such as flooding.</p> <p>Ensure climate-resilient infrastructure for the planned buildings.</p>	<p>Occupational Health and Safety</p> <p>Construction Works and Technical Department</p>	<p>Budget spent on infrastructure for water management</p> <p>Emergency plan</p> <p>Risk analysis</p> <p>Reports</p> <p>Checklists for the campuses and buildings in case of emergency</p>

e. Ecosystems and Biological Diversity

The investigation and conservation of ecosystems and biodiversity in campus areas, along with the fundamental strategies identified for sustainable campus landscaping, are listed below, and the implementation guidelines are summarized in Table 5.

1. Native and Drought-Resistant Landscaping
2. Green Space Planning and Conservation
3. Pollution Prevention

Table 5. Implementation guidelines for ecosystem and biological diversity

Strategies	Goal - Action	Implementer	Monitoring and Performance Indicators
Native and Drought-Resistant Landscaping:	<p>Designing and maintaining campus landscapes with native plants and drought-resistant vegetation that require less water and are better adapted to local climate conditions.</p> <p>Using sedum instead of grass for suitable areas.</p> <p>Implementing vertical gardens or soil-less farming practices.</p>	Construction Works and Technical Department	<p>Percentage of campus area landscaped with native and drought-resistant plants.</p> <p>Reduction in water usage for landscaping compared to baseline.</p>
Green Space Planning and Conservation:	<p>Incorporating green space planning into campus development and landscaping projects to preserve natural areas and, enhance biodiversity.</p> <p>Determining the green drainage capacity of the campuses.</p> <p>Incorporating green space planning into campus development and</p>	<p>Construction Works and Technical Department</p> <p>Department of Biology</p> <p>Department of Landscape Architecture</p>	<p>Increase in the total area of green spaces and parks on campus.</p> <p>Number of accessible green spaces.</p>

	landscaping projects to protect natural areas and enhance biodiversity. Creating structures that comply with the European Landscape Convention.	Department of City and Regional Planning Faculty of Agriculture	
Pollution Prevention:	Implementing pollution prevention measures to minimize chemical runoff, waste discharge, and air pollution that can harm ecosystems. Utilizing environment friendly landscaping practices and reducing pesticide and fertilizer use to protect water quality and biodiversity. Transitioning to biological control	All Units Construction Works and Technical Department	Identification and reduction of key pollution sources (air, water, soil). Percentage reduction in pollutants emitted or discharged from campus activities.

f. Buildings and Infrastructure

Some of the sustainability and carbon emission-reducing practices related to building design, renovation and infrastructure processes were evaluated under the "Energy-Efficient Design, Water Efficiency, Waste Management, Ecosystems and Biological Diversity" themes. Other key strategies and implementation guidelines (Table 6) that can be considered for buildings and infrastructure are as follows:

1. Green Building Certification
2. Sustainable Materials
3. Smart Building Technologies
4. Adaptive Reuse and Renovation

Table 6. Implementation guidelines for energy buildings and infrastructure

Strategies	Goal - Action	Implementer	Monitoring and Performance Indicators
Green Building Certification:	Designing new buildings to meet green building standards such as LEED (Leadership in Energy and Environmental Design). In this context, solutions such as energy efficiency, water conservation through greywater systems and rainwater harvesting, and indoor air quality can be adopted. The sustainability of existing and newly constructed buildings should be assessed through Life Cycle Assessment (LCA) to evaluate their environmental impacts.	Construction Works and Technical Department Faculty of Architecture and Design Faculty of Engineering	Number of buildings certified under recognized green building standards. Energy and water savings achieved. Improvement in indoor air quality and occupant comfort.

Sustainable Materials:	Prioritizing the use of sustainable and locally sourced materials with low environmental impact for construction materials.	Construction Works and Technical Department All Units	Percentage of building materials sourced from sustainable or recycled sources.
Smart Building Technologies:	Ensuring automatic controls for lighting, HVAC and sensors.	Construction Works and Technical Department Digital Transformation Office	Number and type of smart technologies implemented Energy/water/resource savings achieved through smart building technologies.
Adaptive Reuse and Renovation:	Retrofitting older buildings with energy-efficient technologies and sustainable features to extend their lifespan and reduce embodied carbon emissions.	Construction Works and Technical Department	The number of buildings or areas undergoing adaptive reuse or renovation. The budget spent on adaptive reuse or renovation. Energy savings achieved through renovation and strengthening.

g. Education and Research

At ÇOMU, various events are held, and collaborations are established throughout the year on sustainability and climate change. The Re-You project is aimed to make the Southern Marmara Region, which has great potential in renewable energy resources, one of the world's leading education and career centers in this field (<https://reyouproject.org/>). ÇOMU Faculty of Engineering provides educational activities as one of the partners of this project. Key strategies and initiatives that can be taken for research and education are listed below and Table 7 summarizes the implementation guidelines for education and research in general.

1. Curriculum Integration
2. Interdisciplinary Research
3. Experiential Learning Opportunities
4. Campus Sustainability Projects
5. Sustainability Literacy Programs
6. Climate Action Planning and Policy Advocacy

7. Public Engagement and Outreach

8. Raising awareness and encouraging active participation

Table 7. Implementation guidelines for education and research

Strategies	Goal - Action	Implementer	Monitoring and Performance Indicators
Curriculum Integration:	<p>Integrating climate change, environmental management, sustainability and sustainability practices into existing courses and encouraging new courses on these topics.</p> <p>(Renewable Energy and Energy Efficiency, Water Footprint Calculation, Conservation and Integrated Management of Water Resources, Biodiversity Conservation, Ecosystem Services, Zero Waste, Waste Management, Occupational Health and Safety in Laboratories)</p>	All academic Units	<p>Number of courses integrating sustainability topics into the curriculum.</p> <p>Percentage of students enrolled in sustainability-focused courses.</p>
Interdisciplinary Research:	<p>Promoting interdisciplinary research collaborations addressing climate change impacts, sustainable development, renewable energy technologies, biodiversity conservation, waste management, waste resource recovery, circular economy, water conservation, climate-resilient water systems, sustainable transportation systems and resilience planning.</p> <p>Encouraging faculty and students to conduct research on local environmental issues and the campus.</p>	<p>All academic Units</p> <p>School of Graduate Studies</p> <p>Scientific Research Projects Coordination Unit</p> <p>Office of The Dean of Research</p>	<p>Number of interdisciplinary research projects on sustainability.</p> <p>Number of publications and other research outputs related to sustainability.</p>
Experiential Learning Opportunities:	<p>Providing experiential learning opportunities such as field studies and internships to sustainability and climate action.</p> <p>Encouraging teacher and engineering candidates to participate in sustainability and climate action initiatives during practical training activities.</p>	All academic Units	<p>Number of experimental learning programs focused on sustainability (internships, fieldwork, projects, workshops).</p> <p>Percentage of students participating in experiential learning opportunities.</p> <p>The number of students who are interning in the field of sustainability and climate action</p>

Campus Sustainability Projects:	<p>Supporting student-led sustainability initiatives and projects on campus through grants and mentorship.</p> <p>Encouraging student organizations to undertake sustainability campaigns, waste reduction projects, and community outreach activities strengthens campus sustainability culture.</p>	<p>The Sustainability Office</p> <p>Social Responsibility Projects Office</p> <p>The Sustainability Club</p> <p>Other Student Clubs</p>	<p>Number of sustainability projects implemented on campus</p> <p>The number of participants in sustainability-related activities implemented on campus.</p> <p>The number of activities conducted for community engagement related to sustainability.</p>
Sustainability Literacy Programs:	<p>Offering workshops, seminars, and certification programs (such as climate science, green building design, sustainable agriculture, and environmental policy) that enhance sustainability literacy among students, faculty, and staff.</p>	All academic Units	<p>The number of sustainability literacy programs.</p> <p>Number of participants in sustainability literacy programs.</p>
Climate Action Planning and Policy Advocacy:	<p>Involving students and faculty in the development and implementation of campus-wide climate action plans and sustainability policies.</p> <p>Promoting the planning and implementation of all events and activities with consideration of their carbon footprint.</p>	<p>The Sustainability Office</p> <p>The Sustainability Club</p> <p>Green Transition Office</p> <p>Zero-Waste Commission</p> <p>And other related units</p>	Number of campus policies adopted to support climate action.
Public Engagement and Outreach:	<p>Organizing public lectures, symposiums, and community events that raise awareness about climate change, sustainability challenges, and innovative solutions.</p> <p>Engaging with local communities, industry partners, and government agencies for collaboration and knowledge sharing.</p>	All Units	<p>Number of organised public engagement events (workshops, seminars, community events).</p> <p>Number of participants in public engagement events (workshops, seminars, community events).</p> <p>Feedback from community members on engagement activities.</p>
Raising awareness and encouraging active participation	<p>Encouraging practices such as turning off unnecessary lights, unplugging electronic devices, and adjusting thermostat settings.</p> <p>Promoting behavioural changes among students, faculty, and staff to reduce water usage in daily activities.</p>	<p>All Units</p> <p>The Sustainability Office</p>	<p>Number of awareness campaigns on sustainability issues.</p> <p>Measurement of changes in behaviour towards sustainable practices (e.g.,</p>

	<p>Encouraging students and staff to use their own water bottles and cups to reduce waste, in collaboration with campus businesses.</p> <p>Ensuring community engagement on campus through the Sustainability Club, volunteer programs, and sustainability-themed courses.</p> <p>Launching campaigns to raise awareness about the environmental benefits of sustainable transportation options and reducing vehicle usage.</p> <p>Promoting conservation of water, energy, and waste through ÇOMÜ Campus FM, social media, and on-campus awareness signage.</p> <p>Increasing student participation through incentive programs like meal vouchers in exchange for waste.</p> <p>Ensuring the use of local products in university cafeterias and favouring seasonal local products in meal menus.</p> <p>Ensuring the use of local handicrafts and products in university events, gift shops, or promotional items.</p> <p>Preferring local catering, decoration, and other service providers for events organized by the university.</p>	<p>The Sustainability Club</p>	<p>recycling rates, transportation choices).</p>
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4. CONCLUSION

The climate action plan for Çanakkale Onsekiz Mart University (2024-2030) outlines strategies to reduce carbon emissions across seven themes. Key actions can be summarised as follows:

- **Energy Efficiency:** The goal is to encourage all units to develop solutions for better energy efficiency, projects for renewable energy production, and industrial partnerships. Furthermore, ÇOMU will be prepared with scientific research and utilization of developments in the field of hydrogen energy usage, expecting its growth in the transportation and industrial sectors worldwide by 2030.
- **Waste Management:** The Zero Waste Unit, Green Transformation Office, Digital Transformation Office, and Sustainability Office need to strengthen efforts to reduce all types of waste, particularly paper, plastic cups, and plastic bottle waste. It is important, for the relevant offices, to guide the units in this regard.
- **Water Efficiency:** The main goal is to implement urgent measures to save water on campuses and develop collaborations with universities, industry and local governments to increase water efficiency.
- **Transportation:** Despite challenges due to the main campus's topography and winter conditions, promoting bicycle and pedestrian transport, particularly in spring, and collaborating with local governments to improve related infrastructure is important.
- **Buildings and infrastructure:** Efforts will be focused on ensuring new buildings follow eco-friendly designs and improving energy and water efficiency in existing buildings.
- **Ecosystems and biodiversity:** Forests play an important role in reducing greenhouse gas emissions. Protecting and enhancing green areas on campus and planting drought-tolerant species to reduce water usage and greenhouse gas emissions is vital.
- **Research and education:** Educational campaigns should be conducted to raise awareness and encourage behaviour change regarding sustainability and climate change among students and staff, and research projects should be developed to enhance practices on campus.

Successful implementation of these actions and coordinated efforts from all university units, academic and administrative staff, and students are essential for achieving the carbon-neutral goal at ÇOMU campuses.

WORKSHOP PARTICIPANT LIST (September 13, 2024 - ÇOMU Dardanos Campus)

Name-Surname	Department/Organization/Institution
R. Cüneyt Erenođlu	Rector of ÇOMU
Evren Karayel Gökkeya	Vice Rector of ÇOMU
Hüsnü Levent Dalyancı	Vice Rector of ÇOMU
Nilgün Ayman Öz	Sustainability Office Coordinator / Department of Environmental Engineering
Faize Sarıř	Assistant Coordinator of Sustainability Office / Faculty of Human and Social Sciences, ÇOMU
Elçin Bayraktar Köse	Assistant Coordinator of Sustainability Office / Vocational School of Social Sciences, ÇOMU
Reyhan Erdem	Kazdađı Protection Association
Ozan Deniz	Faculty of Applied Sciences, ÇOMU
Akın Kıracı	Vocational School of Technical Sciences, ÇOMU
Ergün İřcan	Provincial Directorate of Culture and Tourism, Çanakkale
Çisem Gökdeniz	Çan Municipality / Climate Change and Zero Waste Directorate
Levent Genç	Faculty of Architecture and Design, ÇOMU
Tuđba Kantarcı	Coordination Office of Corporate Communication, ÇOMU
Arzu Bařaran Uysal	Faculty of Architecture and Design, ÇOMU
İremsu Kayan	Faculty of Engineering, ÇOMU
Eda Keskin Uslu	Ezine Vocational School / Department of Food Processing / Green Transition Office, ÇOMU
Dilvin İpek	Ezine Vocational School / Department of Food Processing / Green Transition Office, ÇOMU
Merve Nur Kızmaz	Green Transition Office, ÇOMU
Seçil Ünlü	Faculty of Fine Arts, ÇOMU
Elif Miray Cořkun	Faculty of Fine Arts, ÇOMU
Gizem Özkan	Kolin Hotel
Seçil Meřeli	Kolin Hotel
Halil Ertan	Kolin Hotel

Samet Uğur	Kolin Hotel
Bünyamin Nami Tonka	Federation of Environmental and Nature Associations of Çanakkale
Sevim Sezi Karayazı	Faculty of Architecture and Design, ÇOMU
Erdem Salcan	Faculty of Architecture and Design, ÇOMU
Ali Tolga Özden	Faculty of Architecture and Design, ÇOMU
Hakan Ayyıldız	Faculty of Marine Sciences and Technologies, ÇOMU
Barış Uslu	Faculty of Education, ÇOMU
Ayşe Nur Albayrak	Faculty of Architecture and Design, ÇOMU
Naciye Şimşek	Faculty of Education, ÇOMU
Fehime Sevil Yalçın	Faculty of Education, ÇOMU
Yasemin Çınar	Faculty of Education, ÇOMU
Tuğçe Yıldız	Biga Faculty of Economics and Administrative Sciences, ÇOMU
Elçin Bayraktar Köse	Vocational School of Social Sciences, ÇOMU
Okan Yılmaz	Faculty of Architecture and Design, ÇOMU
Melike İdil Öz	Vocational School of Maritime, ÇOMU
Mine Çardak	Vocational School of Maritime, ÇOMU
Herdem Aslan	Faculty of Science, ÇOMU
Şahin Kök	Office of The Dean of Research, ÇOMU
Melda Açmaz Özden	Faculty of Architecture and Design, ÇOMU
Tülay Cengiz Taşlı	Faculty of Architecture and Design, ÇOMU
Muhsine Kocakurt	Kepez Municipality
Kürşad Demirel	Faculty of Architecture and Design, ÇOMU
Duygu Nur Aşşın	Ezine Municipality
Funda Yalın	Provincial Directorate of Environment, Urbanization, and Climate Change, Çanakkale
Yasemin Baykan	Provincial Directorate of Environment, Urbanization, and Climate Change, Çanakkale
Gökhan Çalışkan	Quality Development and Institutional Monitoring Coordination
Damla Nur Burak	Faculty of Architecture and Design, ÇOMU

APPENDIX: ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ SENATORIAL RESOLUTION

T.C. ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ SENATO KARARI

TOPLANTI TARİHİ : 25.10.2024
TOPLANTI SAYISI : 21

Karar-01) Çanakkale Onsekiz Mart Üniversitesi'nin 2024-2030 yılları arasında kapsayan "İklim Eylem Planı"nın gönderildiği şekilde kabulüne oy birliği ile karar verildi.

Prof. Dr. Ramazan Cüneyt ERENOĞLU
Rektör
(İmza)

Prof. Dr. Evren KARAYEL GÖKKAYA
Rektör Yardımcısı
(İmza)

Prof. Dr. H. Levent DALYANCI
Rektör Yardımcısı
(İmza)

Prof. Dr. Murat ŞEKER
Ziraat Fakültesi Dekanı
(İmza)

Prof. Dr. Nazan YELKİKALAN
Biga İkt. ve İdari Bil. Fak. Dekan V.
(İmza)

Prof. Dr. Özgür TOPKAYA
Biga Uygulamalı Bil. Fak. Dekan V.
(Toplantıya katılmadı.)

Prof. Dr. Yeşim BÜYÜKATEŞ
Çanakkale Uyg. Bilimler Fak. Dekan V.
(İmza)

Prof. Dr. Serdar KURT
Çan Uygulamalı Bil. Fakültesi Dekanı
(İmza)

Prof. Dr. Murat YİĞİT
Deniz Bilimleri ve Tekn. Fak. Dekanı
(İmza)

Prof. Dr. Mustafa TUNALI
Dış Hekimliği Fakültesi Dekan V.
(İmza)

Prof. Dr. Muzaffer ÖZDEMİR
Eğitim Fakültesi Dekan V.
(İmza)

Prof. Dr. Hava ÖZAY
Fen Fakültesi Dekanı
(İmza)

Prof. Dr. Didem ÇATAL
Güzel Sanatlar Fakültesi Dekan V.
(İmza)

Prof. Dr. Muhammed Fatih KESLER
İlahiyat Fakültesi Dekanı
(İmza)

Prof. Dr. Hülya ÖNAL
İletişim Fakültesi Dekanı
(İmza)

Prof. Dr. Onur ÖZBEK
İnsan ve Toplum Bilimleri Fak. Dekanı
(İmza)

Prof. Dr. Tülay CENGİZ TAŞLI
Mimarlık ve Tasarım Fakültesi Dekanı
(İmza)

Prof. Dr. Özgün AKÇAY
Mühendislik Fakültesi Dekan V.
(İmza)

Prof. Dr. Uğur TÜRKMEN
Müzik ve Sahne Sanatları Fak. Dekanı
(İmza)

Prof. Dr. Veli YILANCI
Siyasal Bilimler Fakültesi Dekan V.
(İmza)

Prof. Dr. Cüneyt AKI
Sağlık Bilimleri Fakültesi Dekan V.
(İznil)

Prof. Dr. Hümmet KOÇ
Spor Bilimleri Fakültesi Dekanı
(Toplantıya katılmadı.)

Prof. Dr. Muammer KARAAYVAZ
Tıp Fakültesi Dekanı
(İmza)

Prof. Dr. Mustafa BOZ
Turizm Fakültesi Dekan V.
(İmza)

Dr. Öğr. Üyesi Ufuk Necat TAŞÇI
Ezine Gıda İht. Örg. San. Böl. M.Y.O. Müdürü
(İmza)

Doç. Dr. Melis ULU DOĞRU
Lisansüstü Eğitim Enstitüsü Müdürü
(İmza)

Öğr. Gör. Murat GÜNAY
Yeniçeri Meslek Yüksekokulu Müdürü
(İmza)

Dr. Öğr. Üyesi Sedat BECEREN
Yabancı Diller Yüksekokulu Müdürü.
(İmza)

Dr. Öğr. Üyesi Hande KANDUR ARSLAN
Gökçeada Uyg. Bil. Y.O. Müdürü
(İmza)

Öğr. Gör. Ertuğrul BİLGİÇİ
Biga Meslek Yüksekokulu Müdürü
(İmza)

Dr. Öğr. Üyesi Emin YAKAR
Bayramiç Meslek Yüksekokulu Müdürü
(İmza)

Doç. Dr. Cigdem ÖZKAN
Ayvacık Meslek Yüksekokulu Müdürü V.
(İmza)

Öğr. Gör. Dr. Tanju GÜDÜK
Çanakkale Sosyal Bil. M.Y.O. Müdürü
(İmza)

Dr. Öğr. Üyesi Abdülkerim DİKTAŞ
Gelibolu Piri Reis Meslek Y.O. Müdürü
(İmza)

Doç. Dr. Ahmet TUNC
Çan Meslek Yüksekokulu Müdürü
(İmza)

Dr. Öğr. Üyesi Halit KUŞKU
Denizcilik M.Y.O. Müdürü
(İmza)

Dr. Öğr. Üyesi Gülay KESKİN
Gökçeada Meslek Yüksekokulu Müdürü
(İmza)

T.C.
ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ
SENATO KARARI

TOPLANTI TARİHİ : 25.10.2024
TOPLANTI SAYISI : 21

Prof. Dr. Altıngül ÖZASLAN PARLAK
Ziraat Fakültesi (Üye)
(İmza)

Dr. Öğr. Üyesi Şakir SERBES
Spor Bil. Fak (Üye)
(İmza)

Doç. Dr. Didem SAYGIN
Biga İkt. ve İdari Bil. Fakültesi (Üye)
(İmza)

Prof. Dr. Yener PAZARCIK
Biga Uyg. Bil. Fakültesi (Üye)
(İmza)

Doç. Dr. Ayça AYDOĞDU EMİR
Çanakkale Uygulamalı Bil. Fakültesi (Üye)
(İmza)

Dr. Öğr. Üyesi Can KÖSE
Çan Uygulamalı Bil. Fak. (Üye)
(İmza)

Dr. Öğr. Üyesi Erdem KAN
Deniz Bil. ve Tekn. Fakültesi (Üye)
(İmza)

Doç. Dr. Adil CORUK
Eğitim Fakültesi (Üye)
(İmza)

Prof. Dr. Faruk SOYDUGAN
Fen Fakültesi (Üye)
(İmza)

Doç. Dr. Zahide ACAR
İnsan ve Toplum Bilimleri Fakültesi (Üye)
(İmza)

Doç. Dr. Evren SARIYILMAZ
Diş Hekimliği Fakültesi (Üye)
(İmza)

Prof. Dr. Özgün AKÇAY
Mühendislik Fakültesi (Üye)
(İmza)

Doç. Dr. Kenan SEVİNÇ
İlahiyat Fakültesi (Üye)
(İmza)

Prof. Dr. Hakan DALOĞLU
Güzel Sanatlar Fakültesi (Üye)
(İmza)

Doç. Dr. Ş. Okan MERCAN
Turizm Fakültesi (Üye)
(İzinli)

Doç. Dr. Fikret Merve EKEN KÜÇÜKAKSOY
Müzik ve Sahne Sanatları Fak. (Üye)
(Toplantıya katılmadı.)

Prof. Dr. Arzu BAŞARAN UYSAL
Mimarlık ve Tasarım Fakültesi (Üye)
(İmza)

Prof. Dr. Serhat ÇOBAN
İletişim Fakültesi (Üye)
(İmza)

Prof. Dr. Gülten GÜMÜŞTEKİN
Siyasal Bil. Fak (Üye)
(İmza)

Dr. Öğr. Üyesi Sadi Turgut BİLGİ
Sağlık Bilimleri Fakültesi (Üye)
(Toplantıya katılmadı.)

Prof. Dr. Alper AKÇALI
Tıp Fakültesi (Üye)
(İmza)

Ş. Oğuz ÜNAL
Genel Sekreter V. (Raportör)
(İmza)

ASLI GİBİDİR
Sinan KARABULGU
Genel Sekreter Yrd.



ÇANAKKALE ONSEKİZ MART UNIVERSITY

Sustainability Office Coordinatorship



sustainability.comu.edu.tr



sustainability@comu.edu.tr



[comu.sustainability](https://www.instagram.com/comu.sustainability)

LinkedIn [LinkedIn](https://www.linkedin.com/company/comu-sustainability)