MINGACHEVIR
STATE
UNIVERSITY

MINGACHEVIR STATE UNIVERSITY

Report

13 CLIMATE ACTION

+994 242753272
www.mdu.edu.az
www.sustainable.mdu.edu.az
Dilara Aliyeva street 21.
Mingachevir, Azerbaijan

TABLE OF *Contents*

At a glance

GENERAL INFORMATION ON THE SDG

13 CLIMATE ACTION

One of the Sustainable Development Goals (SDGs) of the United Nations, SDG 13 – "Climate Action", aims to take urgent action to combat climate change and its impacts. This goal focuses on reducing greenhouse gas emissions, strengthening resilience and adaptive capacity to climate-related hazards, and integrating climate measures into national policies, strategies, and planning. It also emphasizes the importance of education, awareness-raising, and institutional capacity-building to address climate change effectively.

Climate change is one of the most pressing global challenges of our time, affecting natural systems, economies, and societies worldwide. Rising global temperatures, extreme weather events, melting glaciers, and sea-level rise are clear indicators of the changing climate. These impacts threaten food security, water availability, human health, and biodiversity, disproportionately affecting vulnerable communities and developing regions.

deforestation, and unsustainable industrial practices have significantly increased the concentration of greenhouse gases in the atmosphere. As a result, the frequency and intensity of climate-related disasters-such as droughts, floods, and heatwaves-have intensified. Therefore, SDG 13 represents not only an environmental priority but also a critical economic and social necessity for sustainable global development.

Mingachevir State University places strong emphasis on addressing climate change by integrating sustainability and environmental responsibility into its institutional framework. The university promotes climate awareness among students and supports the development of knowledge and skills related to climate mitigation and adaptation within its educational programs.

SDG-related topics are embedded in relevant disciplines such as engineering, energy, environmental sciences, and economics, enabling students to understand and respond to climate challenges through innovative and sustainable approaches. Furthermore, through scientific research, laboratory work, and collaborative projects, the university conducts studies related to renewable energy, energy efficiency, and climate resilience. The active participation of students and academic staff in environmental campaigns, tree-planting initiatives, and awareness-raising events further strengthens the university's contribution to climate action. The main purpose of this report is to systematically present and analyze the activities carried out by Mingachevir State University in the framework of SDG 13 – "Climate Action." The report examines the university's teaching practices, research activities, governance policies, and public engagement initiatives, providing an overview of its current contributions to climate sustainability.

POLICY AND STRATEGIC ALIGNMENT

Mingachevir State University (MSU) has adopted sustainable development principles at the institutional level and has approved a number of official policy documents that directly support the implementation of the Sustainable Development Goals (SDGs), including SDG 13 – "Climate Action." The university's Sustainable Development Policy, Climate Change Mitigation Policy, Energy Efficiency and Green Infrastructure Policy, Environmental Policy, Zero Emission Policy, and Waste Management and Recycling Policy define climate change mitigation, adaptation strategies, and environmental protection as key institutional priorities.

The **Sustainable Development Policy** at Mingachevir State University establishes a comprehensive framework for integrating sustainability and climate action principles across all institutional activities, including teaching, research, governance, and community engagement. By embedding sustainability into core functions, the university promotes the reduction of greenhouse gas emissions, efficient use of energy and natural resources, and strengthened environmental responsibility (see:https://sustainable.mdu.edu.az/wp-content/uploads/2026/03/Sustainable-Development-Policy.pdf). This policy ensures a systematic and coordinated approach to sustainability, aligning institutional practices with the objectives of SDG 13 – Climate Action.

The **Climate Change Mitigation Policy** plays a key role in supporting both SDG 13 and SDG 11 – Sustainable Cities and Communities by introducing targeted strategies to reduce greenhouse gas emissions and enhance urban resilience.

The policy emphasizes energy efficiency, renewable energy adoption, and sustainable transportation systems, which collectively contribute to lowering environmental impact (see: https://sustainable.mdu.edu.az/wp-content/uploads/2026/03/Climate-Change-Mitigation-Policy.pdf).

The **Zero Emission Policy** represents a forward-looking approach to eliminating greenhouse gas emissions associated with university activities. It promotes the transition to renewable energy, the use of low-emission transportation, and the adoption of energy-efficient technologies (see: https://sustainable.mdu.edu.az/wp-content/uploads/2026/03/Zero-Emission-Policy.pdf). By reducing air pollution and supporting cleaner energy systems, the policy contributes to improving urban environmental quality and fostering healthier, more sustainable communities in line with SDG 11 and SDG 13.

The **Waste Management and Recycling Policy** plays a critical role in climate change mitigation by encouraging responsible consumption and sustainable waste practices. The policy promotes waste reduction, recycling, and efficient resource use, which help decrease greenhouse gas emissions and reduce reliance on landfills (see: https://sustainable.mdu.edu.az/wp-content/uploads/2026/03/Waste-Management-And-Recycling-Policy.pdf). It also enhances environmental awareness among students and staff, fostering long-term behavioral change and supporting institutional sustainability goals.

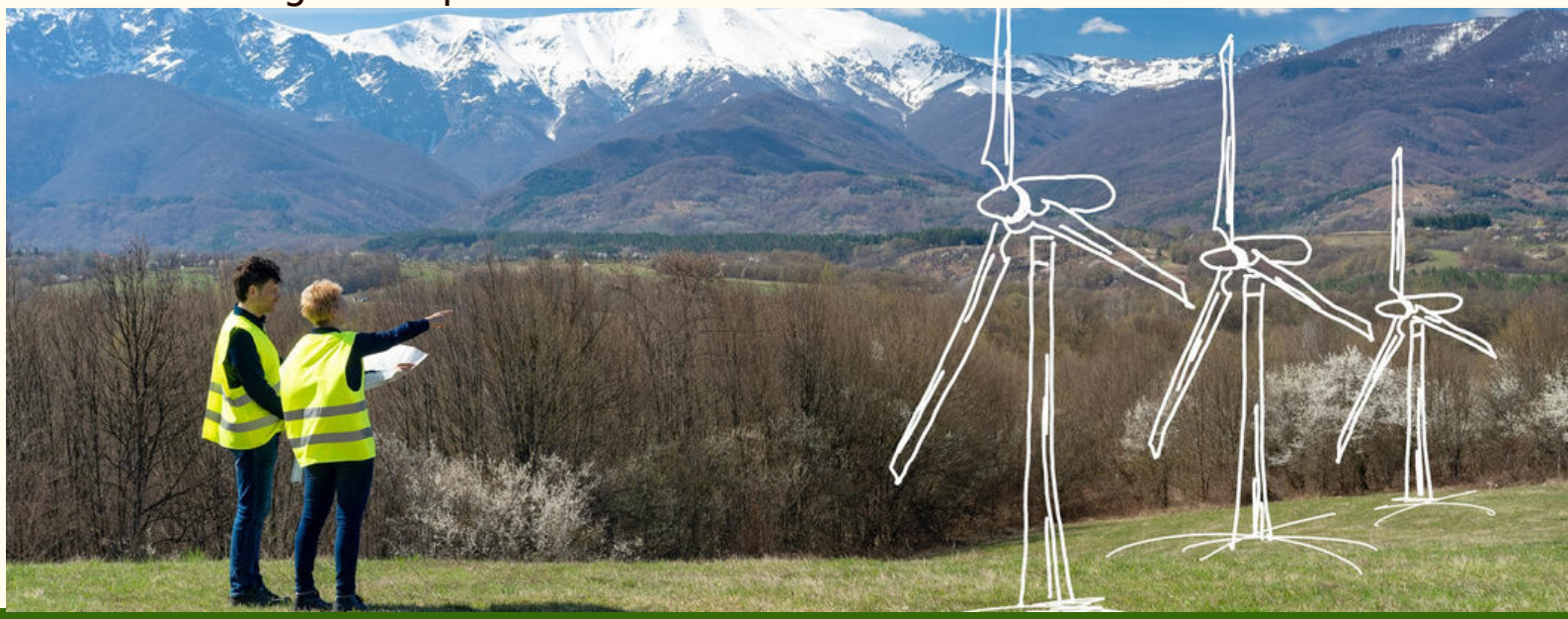
Yogether, these policies form a strong institutional foundation for Mingachevir State University's commitment to SDG 13 – Climate Action, ensuring a coherent and integrated approach to climate governance. This framework is further reinforced by the "MSU 2030: Development Strategy," which identifies sustainable development and climate responsibility as key strategic priorities. The strategy aligns education, research, and governance processes with global climate challenges and integrates SDG 13 principles into all university activities.

Key strategic directions include strengthening climate resilience through the development of a "green university" model, reducing greenhouse gas emissions via energy-efficient practices, supporting environmental protection initiatives, and directing research toward climate-related challenges and solutions. In addition, the strategy emphasizes enhancing climate awareness and sustainability competencies among students and staff. This comprehensive approach demonstrates that Mingachevir State University addresses climate action not only at the academic level but also through institutional governance and campus-wide implementation, contributing actively to sustainable regional development and global climate goals.

IMPLEMENTATION AND MAIN ACTIVITIES

3.1 TEACHING AND LEARNING

Mingachevir State University integrates topics relevant to SDG 13 – "Climate Action" into its academic curriculum through various environment-, energy-, and engineering-oriented courses. These include subjects such as climate change, environmental protection, renewable energy, energy efficiency, environmental monitoring, and sustainable use of natural resources. Although not all courses are exclusively dedicated to climate change, many incorporate key concepts related to greenhouse gas reduction, climate mitigation and adaptation, and environmental sustainability. This interdisciplinary approach enables students to understand the complexity of climate-related challenges and their global implications.



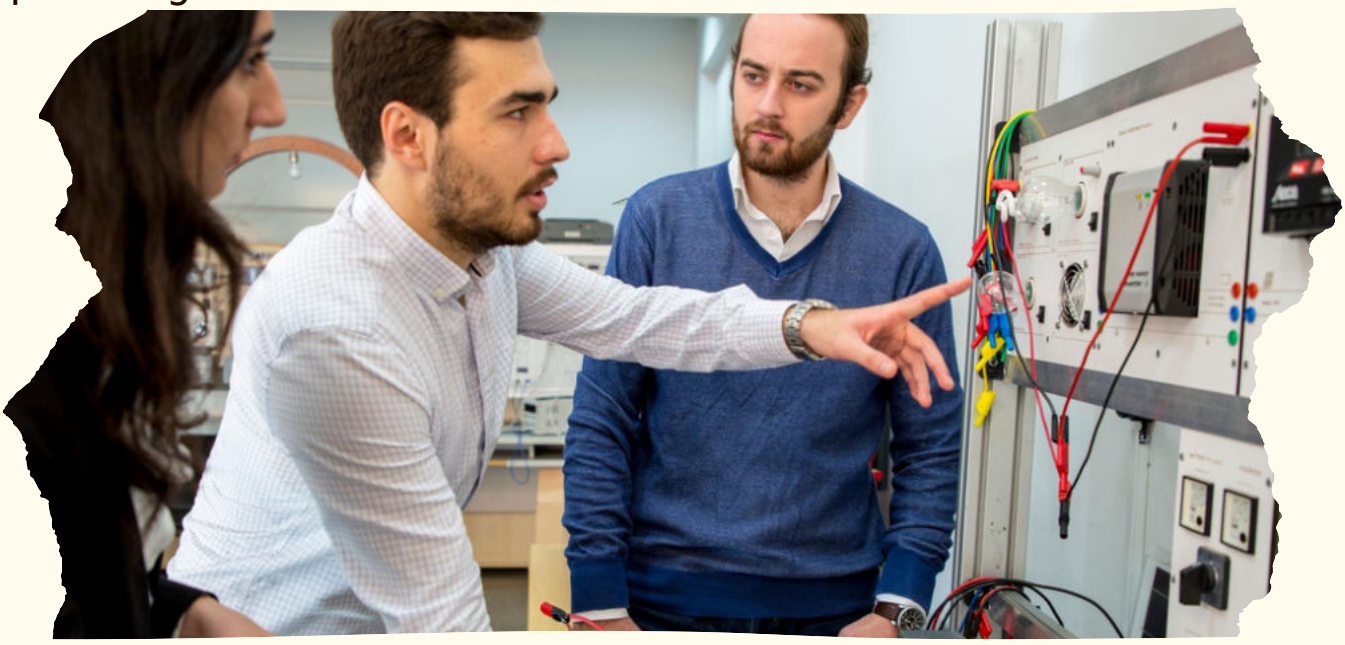
SDG 13-related content is mainly delivered through programs in fields such as Environmental Engineering, Energy Engineering, Ecology, and other technical and science-based disciplines. These programs provide students with both theoretical knowledge and practical skills related to climate action, sustainable energy systems, and environmental management. Through these programs, students gain competencies in analyzing climate-related problems, developing innovative solutions, and understanding the importance of reducing environmental impact at both local and global levels.

Sustainability principles, including those aligned with SDG 13, are systematically integrated into the university's curriculum. Climate-related topics are embedded across multiple courses and modules rather than being limited to standalone subjects. This ensures that students from different academic backgrounds are exposed to climate action concepts. Practical components such as laboratory work, case studies, simulations, and project-based learning further strengthen the integration of SDG 13 into the teaching process, allowing students to apply theoretical knowledge to real-world climate challenges.

Student participation plays a significant role in the implementation of SDG 13 within the teaching and learning process. Students are actively involved in coursework, research projects, and practical assignments related to climate change mitigation, renewable energy, and environmental sustainability. In addition, they participate in seminars, workshops, and awareness-raising activities focused on climate action. This active engagement enhances their sense of environmental responsibility and encourages them to contribute to climate solutions both during their studies and in their future professional careers.

3.2 RESEARCH

Mingachevir State University actively implements research activities aligned with SDG 13 – Climate Action, with a strong focus on climate change mitigation, adaptation strategies, sustainable energy solutions, and the reduction of environmental impacts. The university conducts a wide range of applied research initiatives in areas such as renewable energy development, climate risk assessment, and the analysis of human impacts on the environment. These studies are supported through field observations, laboratory experiments, and interdisciplinary collaboration across engineering, environmental sciences, and related disciplines. In addition, the organization of thematic seminars and large-scale academic events dedicated to climate change further strengthens the university's role in promoting research-driven climate action.



The university continuously enhances its research capacity through practical engagement with climate-related challenges, particularly at the regional level. Research activities include the study of climate variability, the identification of vulnerability factors, and the development of effective adaptation mechanisms. Specialized trainings and academic programs contribute to building both theoretical knowledge and applied competencies in climate resilience, enabling students and researchers to better understand and address the impacts of climate change.

Research outputs related to SDG 13 are disseminated through various academic channels, including scientific journals, conference proceedings, and institutional events. Faculty members and researchers actively participate in discussions and studies on climate change, energy transition, sustainability, and the relationship between environmental factors and socio-economic development. These activities contribute to strengthening the university's academic profile and increasing its visibility in climate-related research.

Furthermore, SDG 13 topics are closely integrated into innovation and applied research initiatives. Projects focusing on zero-emission solutions, circular economy models, and sustainable resource management demonstrate the university's commitment to developing practical and innovative approaches to environmental challenges. Such initiatives encourage students to design and implement solutions that address real-world climate issues while promoting sustainability-oriented thinking.

Overall, these combined research and innovation efforts significantly enhance the university's contribution to climate change mitigation and adaptation. They support the advancement of scientific knowledge, foster practical problem-solving skills, and strengthen the implementation of SDG 13 at institutional, regional, and national levels.

3.3 SOCIAL AND INDUSTRIAL ENGAGEMENT

Mingachevir State University plays an active and strategic role in collaboration with industry partners to promote climate action, sustainable energy use, and the reduction of environmental impacts in alignment with SDG 13 – Climate Action. Through close cooperation with the energy sector and other relevant industries, the university provides students with practical learning opportunities related to renewable energy systems, energy efficiency, and low-carbon development pathways. These partnerships bridge the gap between academic knowledge and real-world applications, enabling students to understand the practical dimensions of climate change mitigation and sustainable development.

In particular, collaboration with major energy institutions, such as the Mingachevir Hydroelectric Power Station Cascade, allows students to gain hands-on experience in sustainable hydropower production, energy transition processes, environmental impact assessment, and efficient resource utilization.

Beyond industry engagement, MSU actively contributes to raising public awareness on climate change and environmental responsibility through a variety of community-oriented initiatives. The university regularly organizes ecological and climate-focused projects aimed at reducing carbon emissions, promoting energy-saving practices, and strengthening environmental awareness within society. Large-scale academic and public events dedicated to climate change further enhance awareness and encourage active participation from students, academic staff, and the wider community.

Student involvement plays a crucial role in these initiatives. Through volunteer programs and outreach activities, students actively participate in environmental campaigns such as tree planting, sustainability awareness programs, and ecological education initiatives. These activities not only contribute directly to environmental protection and carbon sequestration but also foster a strong sense of environmental responsibility and civic engagement among students.

The university also organizes a wide range of seminars, training sessions, and roundtable discussions that focus on key climate-related topics, including climate risk assessment, adaptation mechanisms, renewable energy technologies, and sustainable development strategies.

Furthermore, scientific and practice-oriented events involving industry experts and stakeholders explore the interconnections between climate change, energy systems, and socio-economic development. Topics such as the relationship between climate change and food security highlight the broader implications of environmental challenges and emphasize the need for integrated, interdisciplinary solutions.

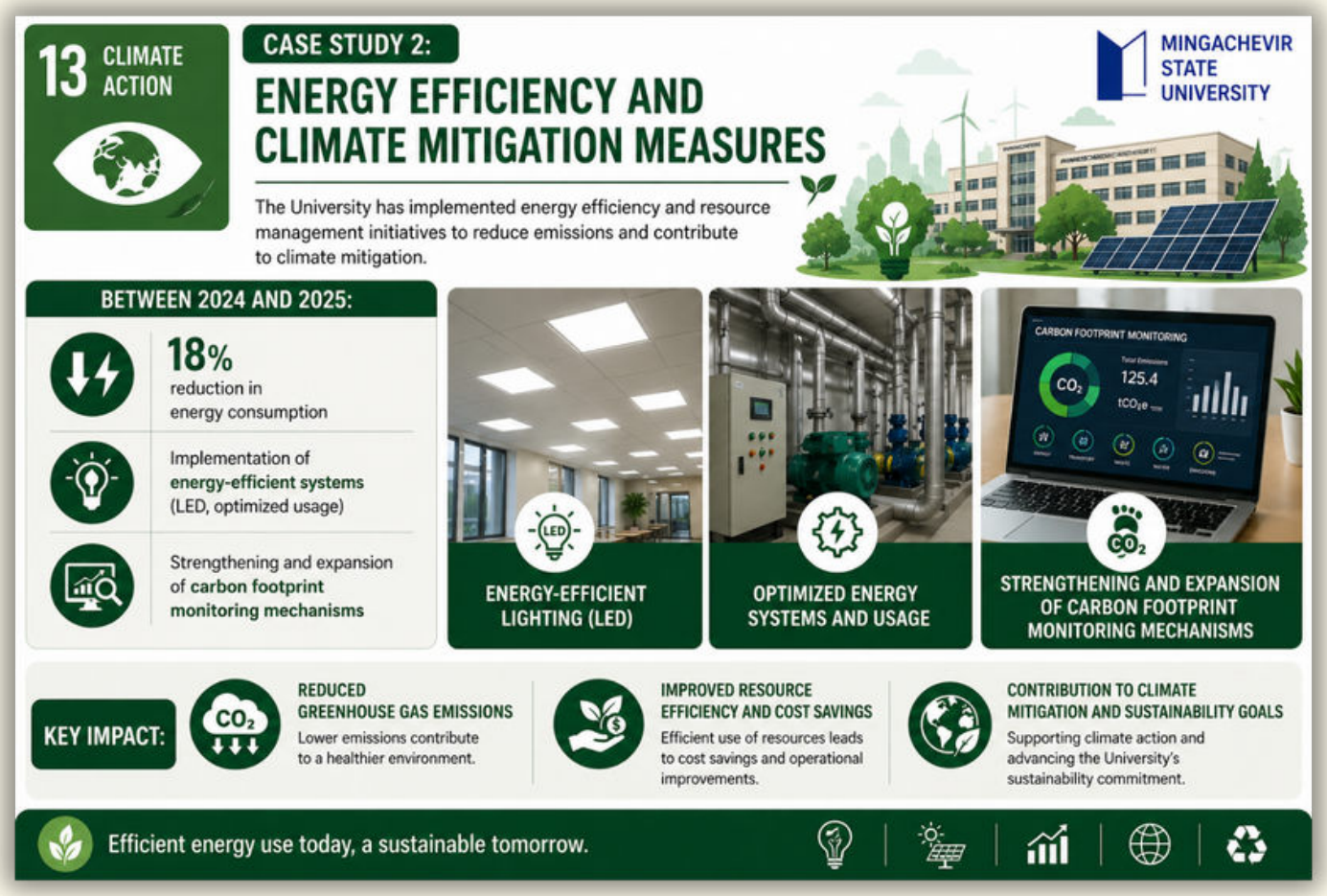
At the regional level, Mingachevir State University plays an important role in supporting sustainable development and climate resilience initiatives. By contributing to projects focused on renewable energy transition, environmental protection, and climate adaptation, the university ensures alignment between regional development priorities and global climate action objectives.

3.4 CASE STUDIES: SDG 13 IN PRACTICE

This figure presents Case Study 1 on Climate Awareness, Education and Community Engagement at Mingachevir State University. It highlights the University's integrated approach to promoting climate action through awareness campaigns, academic programs, and community-based initiatives.

Between 2024 and 2025, 12 climate awareness campaigns and seminars were conducted, engaging over 700 students and staff. In addition, 8 community-based environmental initiatives were implemented, reaching more than 300 external beneficiaries, while climate-related topics were integrated into six academic courses.

3.4 CASE STUDIES: SDG 13 IN PRACTICE



This figure presents Case Study 2 on Energy Efficiency and Climate Mitigation Measures at Mingachevir State University. It highlights the University's efforts to reduce emissions through energy efficiency improvements and effective resource management practices.

Between 2024 and 2025, the University achieved an 18% reduction in energy consumption, implemented energy-efficient systems such as LED lighting and optimized energy usage, and strengthened and expanded carbon footprint monitoring mechanisms.

3.4 CASE STUDIES: SDG 13 IN PRACTICE

This figure presents Case Study 3 on Green Campus, Research and Environmental Sustainability at Mingachevir State University. It highlights the University's efforts to strengthen its green campus strategy and expand research activities related to climate and environmental sustainability.

Between 2024 and 2025, campus green areas increased by 15%, while 10 climate-related research projects were implemented and more than 18 academic publications were produced. In addition, eco-friendly infrastructure initiatives were introduced across the campus.

EVIDENCE

The event dedicated to the application of technological solutions for improving green office practices provided a comprehensive platform for discussing sustainability in administrative and workplace environments. Participants explored key topics such as energy efficiency, paperless systems, and sustainable resource management, emphasizing the importance of reducing environmental impact through digital transformation. Special attention was given to innovative tools and smart technologies that enable monitoring and optimization of energy consumption, demonstrating how digitalization can support environmentally responsible office practices (see: https://mdu.edu.az/technological-solutions-for-optimizing-green-office-30-09-25/).

EVIDENCE

www.sustainable.mdu.edu.az

04

SDG 13: Climate Action

An event focusing on climate change and its global impacts brought together students and academic staff to analyze pressing environmental challenges and explore potential solutions. Discussions covered both mitigation strategies and adaptation mechanisms necessary for building climate resilience, while also emphasizing the importance of reducing greenhouse gas emissions. Participants actively exchanged ideas on sustainable environmental practices, contributing to a broader understanding of climate-related risks and responsibilities (see: https://mdu.edu.az/climate_20-04-25/). This activity played an important role in strengthening climate awareness within the academic community.

EVIDENCE

Another event explored contemporary challenges related to climate change and environmental sustainability, with a particular focus on scientific approaches to mitigation and adaptation. Experts shared insights on sustainable development strategies and highlighted the role of education in addressing environmental issues. The discussions encouraged participants to consider both global and local dimensions of climate change while strengthening their understanding of environmental responsibility (see: https://mdu.edu.az/climate-01-04-25/). Such academic engagement contributes to shaping environmentally conscious mindsets and strengthens the role of higher education in addressing climate-related challenges.

EVIDENCE

A dedicated event examined the relationship between tourism development and environmental sustainability, emphasizing the environmental impacts of tourism activities. Participants discussed eco-friendly tourism practices and strategies aimed at balancing economic growth with environmental protection. The discussions highlighted the importance of sustainable tourism models that minimize ecological damage while supporting local economies (see: https://mdu.edu.az/tourism_30-04-25/). The outcomes of this event support the development of environmentally responsible tourism approaches.

EVIDENCE

www.sustainable.mdu.edu.az

04

SDG 13: Climate Action

The training on climate risk assessment and adaptation mechanisms focused on equipping participants with practical tools and methodologies for analyzing environmental vulnerabilities. Through case studies and real-world examples, participants gained insights into scientific approaches to climate-related decision-making and resilience planning. The training emphasized the importance of evidence-based strategies in addressing climate risks and enhancing adaptive capacity (see: https://mdu.edu.az/training-on-climate-risk-assessment-and-adaptation-mechanisms-held-at-mingachevir-state-university/). As a result, participants improved their ability to evaluate risks and develop effective adaptation strategies.

13 CLIMATE ACTION

EVIDENCE

An environmental awareness activity aimed at promoting climate responsibility encouraged participants to adopt sustainable behaviors in their daily lives. Through discussions and interactive engagement, students and staff explored the impact of individual actions on environmental sustainability and climate change (see: https://www.facebook.com/100083442572510/posts/907394015385343/?rdid=zXRgKAIJGPy2JPtR#). The activity contributed to building a culture of environmental responsibility within the university community.

EVIDENCE

A scientific and practical event focusing on climate change provided a platform for discussing environmental challenges and possible mitigation strategies. Participants emphasized the importance of interdisciplinary approaches in climate research, while academic staff shared research-based insights on sustainability issues (see: https://mdu.edu.az/climate_03-11-25/). The discussions strengthened the integration of research-based knowledge into climate education.

The event on climate change and food security explored the relationship between environmental changes and agricultural productivity. Participants discussed how climate variability affects food systems and highlighted strategies for sustainable agriculture and resource management. Experts emphasized the importance of developing climate-resilient food systems to ensure long-term food security (see: https://mdu.edu.az/climate-change-and-food-security-11-12-25/).

EVIDENCE

A roundtable discussion on integrating climate change topics into academic curricula focused on enhancing sustainability education within higher education institutions. Participants explored curriculum development strategies and interdisciplinary teaching approaches, emphasizing the importance of equipping students with climate-related knowledge and competencies. Faculty members shared best practices for embedding sustainability into educational programs (see: https://mdu.edu.az/roundtable-on-integration-of-climate-change-topics-into-educational-programs-held-18-12-25/). The initiative contributed to strengthening the academic integration of climate-related topics.

In event dedicated to climate awareness and sustainability emphasized the role of education in promoting climate action. Participants discussed environmental responsibility and exchanged ideas on sustainable practices, contributing to the development of climate literacy among students and staff (see: https://mdu.edu.az/climate_08-11-25/).

An activity focused on reducing plastic waste highlighted the environmental impacts of plastic pollution and the importance of sustainable consumption. Participants were introduced to eco-friendly alternatives and recycling practices, while awareness campaigns encouraged behavioral change toward responsible resource use (see: https://mdu.edu.az/plastik-resm_01-10-25/).

EVIDENCE

The startup initiative focused on transforming waste into valuable resources introduced participants to circular economy principles and sustainable production systems. Innovative ideas for waste reduction and reuse were presented, encouraging entrepreneurial thinking and sustainable innovation (see: https://mdu.edu.az/from-waste-to-value-circular-economy-startup-01-04-25/).

The zero-emission idea competition encouraged students to develop innovative solutions aimed at reducing environmental pollution and promoting low-carbon technologies. Participants presented projects focused on sustainability, while proposals were evaluated based on feasibility and environmental impact (see: https://mdu.edu.az/zero-emission-idea-competition-18-09-25/).

EVIDENCE

A startup initiative focused on biodiversity conservation and soil restoration emphasized sustainable land use and ecological balance. Participants explored innovative approaches to ecosystem restoration and highlighted the importance of preserving biodiversity for long-term environmental sustainability (see: https://mdu.edu.az/biodiversity-and-soil-restoration-startup-30-09-25/).

The event dedicated to the ecological condition of the Kura River basin addressed critical environmental issues such as pollution, biodiversity loss, and water resource management. Participants discussed scientific approaches to ecosystem restoration and emphasized the importance of protecting river ecosystems for sustainable development (see: https://mdu.edu.az/kura_08-11-25/).

EVIDENCE

www.sustainable.mdu.edu.az

04

SDG 13: Climate Action

The seminar held within the framework of Climate Week addressed global climate change challenges and sustainable solutions, emphasizing both mitigation and adaptation strategies. Participants explored pathways toward a sustainable future, while experts highlighted the importance of collective action and climate governance (see: https://mdu.edu.az/climate-week-climate-change-and-towards-a-sustainable-future-seminar-successfully-held-03-04-25/).

A tree-planting initiative aimed at environmental restoration and carbon reduction provided participants with an opportunity to actively contribute to sustainability efforts. The activity emphasized the role of afforestation in mitigating climate change and improving ecosystem health, while also fostering environmental responsibility among students and staff (see: https://mdu.edu.az/tree-planting_22-04-25/).

13 CLIMATE ACTION

IMPACT

The integration of SDG 13-related topics into teaching and learning processes at Mingachevir State University has significantly enhanced the overall quality of education. By incorporating real-world climate challenges —such as global warming, greenhouse gas emissions, renewable energy transition, and climate risk management—into the curriculum, the university ensures that students receive relevant, up-to-date, and practice-oriented knowledge. The use of seminars, training sessions, laboratory work, and project-based learning approaches strengthens critical thinking, problem-solving abilities, and interdisciplinary understanding. Consequently, the educational process becomes more dynamic, research-oriented, and closely aligned with global sustainability and climate action standards.

Activities related to SDG 13 also contribute substantially to the professional and personal development of both students and academic staff. Students gain hands-on experience through participation in research projects, climate-related competitions, environmental campaigns, and scientific events, which enhances their analytical thinking, teamwork, and innovation skills. Meanwhile, academic staff benefit from increased engagement in interdisciplinary research, innovation processes, and collaborative climate-related initiatives. Continuous involvement in sustainability activities fosters environmental awareness, encourages lifelong learning, and supports the development of a more responsive and adaptive academic community.

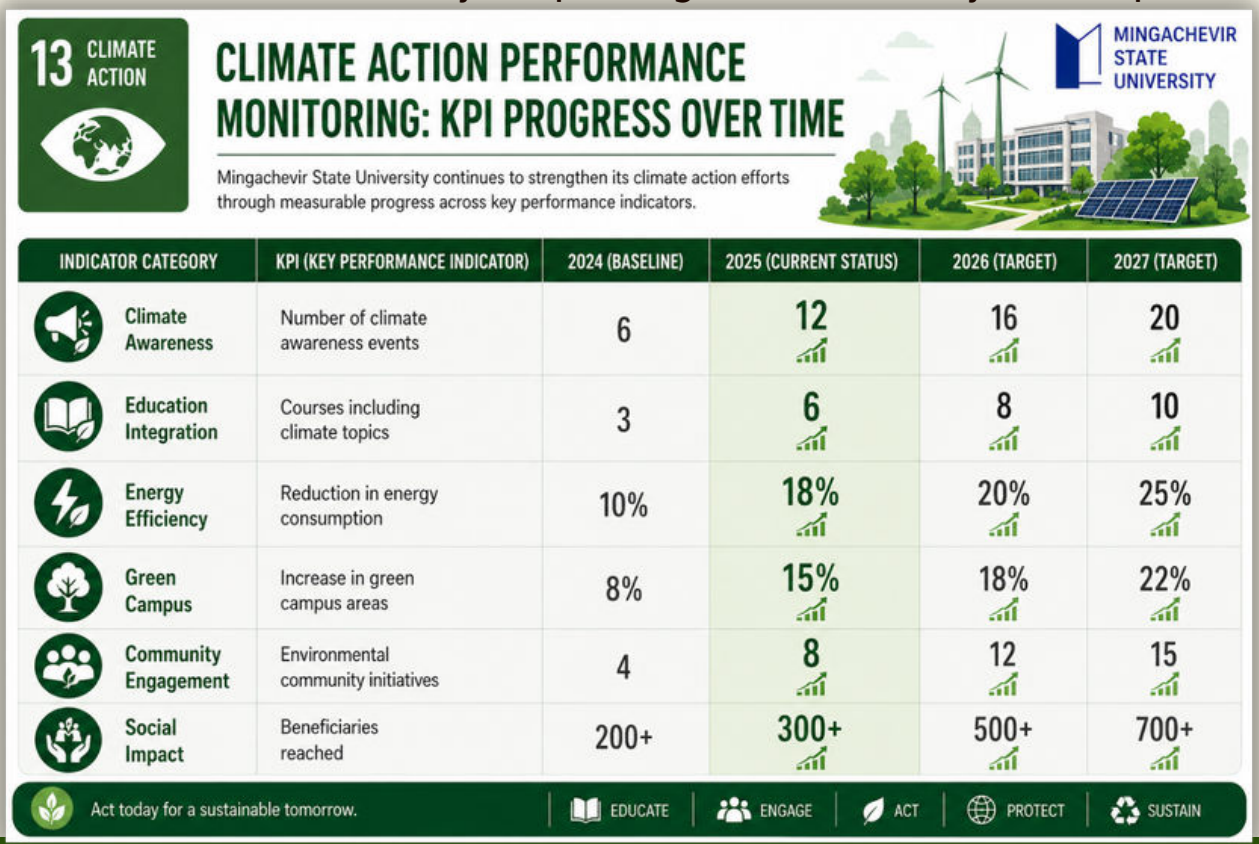
In terms of industry and workforce development, the university plays a key role in preparing students for emerging climate-related challenges. By equipping graduates with knowledge and skills in climate science, renewable energy, and sustainable development, the university contributes to the formation of a highly qualified and competitive workforce. Collaboration with industry partners and participation in practical training activities ensure that academic outcomes are aligned with labor market demands. This not only enhances employability but also supports the transition toward low-carbon, energy-efficient, and climate-resilient economic systems.

At the regional level, Mingachevir State University serves as an important driver of sustainable development through its SDG 13-related initiatives. By addressing local environmental challenges—such as energy efficiency, environmental protection, and climate risk management—the university contributes to strengthening regional resilience and adaptive capacity. Cooperation with local stakeholders, institutions, and communities further enhances the effectiveness and impact of these initiatives.

KPI PROGRESS AND TARGETS

This figure illustrates Mingachevir State University's performance in climate action through key indicators covering awareness, education, energy efficiency, green campus development, and community engagement. It presents baseline data for 2024, current progress in 2025, and strategic targets for 2026–2027.

The data highlights steady growth in climate awareness activities, increased integration of climate topics into academic programs, and significant improvements in energy efficiency and green campus expansion. In addition, community initiatives and social impact indicators demonstrate the University's expanding contribution beyond campus.



INDICATOR CATEGORY	KPI (KEY PERFORMANCE INDICATOR)	2024 (BASELINE)	2025 (CURRENT STATUS)	2026 (TARGET)	2027 (TARGET)
Climate Awareness	Number of climate awareness events	6	12	16	20
Education Integration	Courses including climate topics	3	6	8	10
Energy Efficiency	Reduction in energy consumption	10%	18%	20%	25%
Green Campus	Increase in green campus areas	8%	15%	18%	22%
Community Engagement	Environmental community initiatives	4	8	12	15
Social Impact	Beneficiaries reached	200+	300+	500+	700+

MINGACHEVIR STATE UNIVERSITY

CHALLENGES AND AREAS FOR IMPROVEMENT

ADVANCING SDG 13 – CLIMATE ACTION

13 CLIMATE ACTION

Despite the progress achieved in advancing climate action initiatives, Mingachevir State University continues to face several challenges that affect the efficiency, scalability, and long-term sustainability of its efforts.

One of the key challenges is the limited institutional capacity for comprehensive climate data management and monitoring. While carbon footprint monitoring mechanisms have been initiated, the absence of a fully integrated, real-time data system restricts systematic analysis and evidence-based decision-making at the institutional level.

Another important issue relates to the scale of energy transition. Although energy efficiency measures have resulted in approximately 18% reduction in energy consumption, the share of renewable energy in total energy use remains relatively low (estimated below 6%), highlighting the need for further investment in clean energy infrastructure.

Financial constraints also pose a challenge in expanding large-scale climate initiatives. Capital-intensive projects such as renewable energy systems, smart infrastructure, and digital monitoring platforms require sustained funding, which remains limited within current institutional resources.

In addition, the integration of climate action into academic programs is still partial. While climate-related content has been incorporated into selected courses, its presence across disciplines remains uneven, indicating the need for a more systematic and interdisciplinary curriculum approach.

There are also challenges related to sustaining long-term behavioral change among students and staff. Although awareness campaigns have reached 700+ participants annually, maintaining consistent engagement and translating awareness into long-term behavioral transformation remains a critical issue.

Furthermore, collaboration with external stakeholders—including industry partners, local authorities, and international organizations—remains at a developing stage. Expanding structured, long-term partnerships is essential to enhance the impact, scalability, and innovation capacity of climate-related initiatives.

By addressing these challenges, Mingachevir State University will strengthen its climate resilience, drive meaningful impact, and contribute to a sustainable, low-carbon future in alignment with **SDG 13 – Climate Action.**

MINGACHEVIR STATE UNIVERSITY

CORRECTIVE ACTIONS AND RESPONSE STRATEGY

ADVANCING SDG 13 – CLIMATE ACTION

13 CLIMATE ACTION



In response to the identified challenges, Mingachevir State University has developed a comprehensive and forward-looking strategy aimed at enhancing climate action performance, reducing emissions, and ensuring long-term institutional sustainability.

To address gaps in climate data management, the University will establish a centralized digital climate monitoring system. This system will enable real-time tracking of energy consumption, carbon emissions, and resource use, thereby strengthening data-driven decision-making and institutional transparency.

To accelerate the energy transition, the University will expand the adoption of renewable energy sources, particularly through the phased installation of solar energy systems. Energy efficiency measures will be further enhanced, with the objective of increasing the share of clean energy in the overall energy mix.

In order to overcome financial constraints, the University will prioritize the mobilization of external funding sources, including international grants, governmental programs, and private sector partnerships. These resources will support the implementation of large-scale climate and infrastructure projects.

To strengthen the integration of climate action into education, the University will adopt a systematic and interdisciplinary curriculum approach. Climate change, sustainability, and green technologies will be incorporated across a broader range of academic programs to ensure comprehensive coverage.

To ensure long-term behavioral change, the University will institutionalize continuous awareness and engagement mechanisms. These will include student-led initiatives, incentive-based programs, and sustainability campaigns designed to promote consistent and measurable behavioral transformation.

To enhance external collaboration, the University will establish strategic partnerships with local authorities, industry stakeholders, and international organizations. These collaborations will focus on joint climate initiatives, knowledge exchange, and technical cooperation.

Through these strategic actions, Mingachevir State University reaffirms its commitment to climate action, building a resilient, low-carbon, and sustainable future in alignment with **SDG 13**.

13 CLIMATE ACTION

CONTINUOUS IMPROVEMENT AND FUTURE PLANS

Mingachevir State University adopts a forward-looking and strategic approach to further strengthen its contribution to SDG 13 – Climate Action by continuously expanding its academic, research, and community-based activities. A key priority is the deeper integration of climate change, renewable energy, and sustainability topics into curricula through the development of specialized courses and interdisciplinary programs. The university also aims to enhance research capacity in climate science and environmental sustainability while increasing student participation in practical and field-based learning experiences related to climate monitoring, energy transition, and environmental protection. In addition, strengthening international cooperation and active participation in global climate initiatives remain important objectives for aligning institutional activities with international sustainability standards.

The university plans to introduce new initiatives that promote innovation and practical engagement in climate action. These include the establishment of specialized research centers and innovation hubs focused on climate technologies, as well as the expansion of existing projects such as green office solutions and zero-emission initiatives. Student-led sustainability programs will be further encouraged to foster leadership and innovation among young people. Moreover, the organization of international conferences, workshops, and competitions related to SDG 13 will provide platforms for knowledge exchange and global collaboration. The development of digital awareness campaigns and educational platforms is also planned to expand outreach and improve climate literacy among wider audiences.

To ensure continuous improvement and long-term impact, Mingachevir State University has identified several strategic areas for development. These include strengthening research capacity through increased funding and resource allocation for sustainability and renewable energy projects, as well as improving systems for data collection, monitoring, and evaluation of carbon emissions and environmental impacts. Expanding partnerships with industry stakeholders will enhance practical training opportunities and ensure that academic outcomes are aligned with real-world climate challenges. Furthermore, the introduction of measurable indicators and performance evaluation mechanisms will support more effective monitoring of SDG 13-related activities, enabling the university to track progress, improve efficiency, and build long-term climate resilience.

CONCLUSION

Mingachevir State University (MSU) demonstrates a strong and structured commitment to the implementation of SDG 13 – "Climate Action" through its integrated approach to teaching, research, governance, and community engagement. The university has established a clear institutional framework supported by sustainability-related policies and strategic development goals, which ensure that climate change mitigation, adaptation, and sustainable development principles are embedded across all levels of activity.

The analysis shows that SDG 13 principles are effectively reflected in the academic process through interdisciplinary curricula, practical laboratory work, training sessions, and student-centered learning activities. These efforts enable students to develop both theoretical understanding and practical competencies related to climate change, renewable energy systems, environmental protection, and sustainable resource management.

CONCLUSION

In the field of research, MSU actively contributes to addressing regional and global climate challenges through applied studies, fieldwork, innovation projects, and academic dissemination. Although further development in internationally indexed research outputs is needed, ongoing efforts indicate a positive trajectory toward greater scientific visibility and collaboration. The availability of laboratory infrastructure and student involvement in climate-related research projects further strengthens the university's contribution to knowledge production in this field.

The university's social and industry engagement activities also play a key role in advancing SDG 13 objectives. Cooperation with industry partners, climate awareness campaigns, tree-planting initiatives, and community-based sustainability programs reflect MSU's commitment to translating academic knowledge into real societal impact. These activities not only raise climate awareness but also promote responsible environmental behavior among diverse stakeholder groups.

CONCLUSION

Overall, MSU's efforts contribute significantly to environmental sustainability and climate resilience at both regional and national levels. The university's active role in education, research, and public engagement positions it as an important stakeholder in promoting climate action and supporting the transition toward a low-carbon and sustainable future.

At the same time, there remains potential for further improvement, particularly in strengthening international research collaboration, increasing high-impact publications, and expanding innovative, data-driven approaches to climate monitoring and environmental management. Enhancing these areas will further align the university with global sustainability standards.

In conclusion, Mingachevir State University has established a solid foundation for contributing to SDG 13 and continues to progress toward becoming a more research-intensive and sustainability-driven institution. Its ongoing and planned initiatives indicate a long-term commitment to climate action, environmental protection, and the development of sustainable solutions for future generations.

MINGACHEVIR STATE UNIVERSITY

13 CLIMATE ACTION

THANK You

We sincerely thank all partners, academic and administrative staff, students, and participants for their support in implementing these initiatives. The achieved results contribute to the MSU`s progress in sustainable development.

Phone

+994 242753272

Website

www.mdu.edu.az

Email

info@mdu.edu.az

Address

D.Aliyeva st. 21. Mingachevir