



«С.Ж.АСФЕНДИЯРОВ АТЫНДАҒЫ ҚАЗАҚ ҰЛТТЫҚ МЕДИЦИНА УНИВЕРСИТЕТІ» КЕАҚ
NCJSC «ASFENDIYAROV KAZAKH NATIONAL MEDICAL UNIVERSITY»

International Rankings Department

"Policy on Sustainable Development and
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"Asfendiyarov Kazakh National Medical University Sustainable Development and Climate Change Policy for 2024-2050"

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INTRODUCTION

Asfendiyarov Kazakh National Medical University (KazNMU) is a leading educational institution occupying a central place in the system of medical education and research in Kazakhstan. The university has a rich heritage, dating back to its founding in 1930, and since then, it has continued to play a key role in training qualified medical professionals, advancing scientific knowledge in the field of medicine, and providing high-quality medical care to the population of the country.

KazNMU offers educational programs at all levels - from bachelor's to doctoral degrees - and actively participates in academic research aimed at improving methods of diagnosis, treatment, and prevention of diseases.

In the modern world, facing the challenges of climate change and environmental threats, issues of sustainable development and combating climate change are becoming increasingly relevant. KazNMU recognizes the importance of these issues and calls for taking responsibility for preserving the environment and ensuring a sustainable future for all.


KazNMU aims to integrate the principles of sustainable development into all aspects of its activities, from the educational process and scientific research to management practices and infrastructure solutions. KazNMU acknowledges its role in fostering environmental awareness among its students, staff, and society as a whole, and strives to become a leader in sustainable development in medical education and research.

1. CONTEXT AND CHALLENGES

1.1. GLOBAL ENVIRONMENTAL ISSUES

Today, the world faces serious environmental challenges that require urgent and vigorous responses. One of the most acute problems is climate change, caused by anthropogenic activities and greenhouse gas emissions. This leads to catastrophic consequences such as rising sea levels, changing weather patterns, participation in fires, and other extreme events that damage the environment and threaten the lives of millions of people worldwide.

In addition to climate change, the global community is confronted with a range of other environmental issues, including loss of biodiversity, pollution of water bodies and soils, deforestation, and the extinction of many animal and plant species. These

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problems threaten the stability of ecosystems and the state of the environment, and directly affect the health and well-being of humanity.

1.2. THE ROLE OF UNIVERSITIES IN SUSTAINABLE DEVELOPMENT

Universities play a key role in overcoming environmental challenges and ensuring sustainable development of society. They are not only centers of education and science but also centers for shaping the values and worldview of the younger generation. Universities can and should become leaders in the development and implementation of innovative solutions to protect the environment and mitigate the consequences of climate change.


The role of universities in sustainable development includes conducting scientific research on environmental issues, educating students about the principles of sustainable development, implementing environmentally friendly technologies and practices on their own premises, and popularizing an ecological lifestyle among society.

1.3. SPECIAL CHALLENGES FOR MEDICAL UNIVERSITIES

Medical universities face their own unique challenges in sustainable development, related to the specifics of their activities. Medical organizations consume significant resources, including energy and water, and also generate a large amount of medical waste, which can have a negative impact on the environment. Additionally, medical research and practice can have certain ecological implications, such as the use of pharmaceuticals containing chemicals or the conduct of medical tests that require resource utilization.

This underscores the importance of implementing sustainable practices in medical universities to minimize negative environmental impact and promote sustainable development both within and beyond the university campus. At the same time, medical universities also have a unique opportunity to make a significant contribution to addressing environmental issues, for example, by developing new treatment methods that are less burdensome on the environment or conducting research on the impact of the environment on human health.

For KazNMU, these challenges are becoming a priority as it strives not only to ensure high-quality medical education and research but also to take a leading role in promoting sustainable development both locally and globally.

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2. VISION, MISSION, AND GUIDING PRINCIPLES

2.1. SUSTAINABLE DEVELOPMENT VISION STATEMENT


KazNMU strives to become a leader in the field of sustainable development, integrating this principle into every aspect of its activities. Our vision includes the creation of a research, education and clinical center that not only provides quality medical education and training of highly qualified practitioners, but also acts as a catalyst for innovation in the areas of environmental sustainability and social justice. We strive to ensure that our university becomes a model for the integration of environmental principles into academic practice, as well as a global center of expertise and research in the field of climate change and sustainable development.

2.2. CLIMATE ACTION MISSION STATEMENT

Our climate mission is to actively address the challenges associated with climate change and create conditions for sustainable development at all levels. We aim to achieve this by implementing innovative technologies, solutions, and strategies aimed at reducing greenhouse gas emissions, preserving biodiversity, and strengthening the resilience of our university community to climate threats. Our mission also includes actively engaging with global and regional partners to jointly develop and implement projects aimed at sustainable development and climate adaptation.

2.3. GUIDING PRINCIPLES OF SUSTAINABLE PRACTICES

1. Environmental responsibility: We adhere to the principle of minimizing negative impact on the environment and conscientiously using natural resources, implementing efficient technologies and practices aimed at reducing our activities' ecological footprint.
2. Social justice: We recognize the importance of creating equal opportunities and fair access to education and healthcare for all members of society, actively supporting measures to improve the lives of our students, staff, and residents of neighboring areas.
3. Innovation and collaboration: We believe that innovation and collaboration are key drivers of progress in sustainable development. Therefore, we encourage and support scientific research, innovative projects, and partnership initiatives aimed at addressing global environmental issues.

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4. Transparency and accountability: We demonstrate openness and transparency in our actions, providing access to information about our environmental activities, as well as being accountable to society and our stakeholders in implementing our sustainable strategies and programs.


3. INSTITUTIONAL COMMITMENT

3.1. MANAGEMENT SUPPORT AND INVOLVEMENT

The leadership of KazNMU takes a leading role in promoting and supporting initiatives in sustainable development and climate change mitigation. The Chairman-Rector of KazNMU, in close collaboration with vice-rectors and department heads, regularly holds meetings and discussions to address strategic directions for KazNMU's development in the context of sustainability and climate protection. He/she actively initiates and supports the implementation of new initiatives aimed at reducing the ecological footprint and promoting sustainable development. The leadership of KazNMU also supports the activities of the Working Group on Sustainable Development of KazNMU by providing necessary resources and assistance for its effective functioning and realization of strategic goals.

3.2. INTEGRATION OF SUSTAINABLE DEVELOPMENT INTO STRATEGIC PLANS

Sustainable development at KazNMU is not merely an additional task but becomes an integral part of strategic planning and management. In the development of strategic plans for a period of at least 5 years, key aspects of sustainable development are taken into account, such as energy efficiency, reduction of atmospheric emissions, waste management, biodiversity conservation, and ensuring social justice. Planned activities and investments undergo thorough environmental and economic assessment, considering their impact on the environment and public welfare. An important part of the strategic plans is the identification of specific measures, objectives, and performance indicators in the field of sustainable development, allowing for regular evaluation and monitoring of progress towards set goals.

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3.3. ALLOCATION OF RESOURCES FOR SUSTAINABLE DEVELOPMENT INITIATIVES


KazNMU allocates significant financial, human, and technological resources to support and implement initiatives in the field of sustainable development. Funding is directed towards a wide range of activities, including the implementation of energy-saving technologies, infrastructure modernization, staff training, conducting scientific research, and educational programs. KazNMU also actively supports projects initiated by students and faculty aimed at improving the sustainability of the university campus and its impact on the environment. In addition to financial support, the leadership and administration actively involve staff and students in the planning and implementation of sustainable initiatives. This fosters an atmosphere of collaboration and interaction, promotes creativity and innovation in sustainable development, and enhances public awareness and responsibility of every member of the university community.

3.4. PROMOTING THE IMPLEMENTATION OF SUSTAINABLE PRACTICES AT ALL LEVELS

KazNMU actively encourages and promotes the implementation of sustainable practices at all levels of university activity. This includes not only operational aspects such as energy management, waste disposal, and environmentally responsible procurement but also academic and scientific initiatives aimed at studying and addressing sustainability issues in the field of medicine and healthcare. KazNMU supports a network of laboratories, centers, and projects specializing in environmental analysis, bioenergy, alternative energy sources, medical ecology, and other topics related to sustainability and environmental protection.

3.5. PROMOTING A CULTURE OF SUSTAINABLE DEVELOPMENT

KazNMU aims not only to implement sustainable practices but also to create a culture of sustainable development that becomes an integral part of life and activities for all members of the university community. To achieve this, regular events, workshops, educational programs, and campaigns are held on waste collection, energy conservation, eco-friendly lifestyles, and other sustainability topics. Exhibitions, conferences, and seminars are also organized to discuss current issues and achievements in the field of sustainable development. Creating a conscious and responsible ecological culture is one of the key aspects of the university's sustainable

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development strategy and serves as the foundation for long-term changes towards a healthier and more sustainable living environment.

4. MANAGEMENT AND ORGANIZATIONAL STRUCTURE

4.1. ESTABLISHMENT OF A WORKING GROUP ON SUSTAINABLE DEVELOPMENT

KazNMU places great importance on the management system for sustainable development, including the establishment of special working groups responsible for coordinating and overseeing sustainable initiatives. These working groups act as key stakeholders, ensuring effective management and implementation of the sustainable development strategy.

University Level:


At the university level, there is a Working Group that brings together representatives from various faculties, departments, and administrative units. The Center oversees the coordination of efforts for sustainable development and integrates sustainable practices into various areas of university activities. Its tasks include developing strategic plans, monitoring task implementation, as well as analyzing and evaluating the effectiveness of implemented initiatives.

Faculties and Departments:

Each faculty or department at KazNMU forms its own working group on sustainable development, which is responsible for adapting common strategies and plans to the specific characteristics and needs of its area of activity. These working groups collaborate directly with the leadership of faculties or departments to ensure full understanding and support of sustainable initiatives within their scope of responsibility.

Composition of Working Groups:

The composition of working groups includes faculty members, administrators, staff, students, and stakeholders. This ensures diverse perspectives and a variety of competencies in the decision-making process and implementation of sustainable initiatives.

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4.2. THE ROLE OF STAKEHOLDERS IN DECISION-MAKING

The development and implementation of sustainable initiatives at KazNMU are based on active engagement with various stakeholders. The university seeks to create an open and transparent platform for exchanging information, ideas, and feedback to consider the opinions of all stakeholders in decision-making.

Student participation:

Students play a key role at the university, contributing their suggestions, ideas and enthusiasm to the development and implementation of sustainable initiatives. KazNMU supports the creation of student organizations and initiative groups specializing in sustainable development, which allows students to actively influence university policy and practice.

Cooperation with third parties:

KazNMU actively collaborates with external organizations, including government organizations, non-governmental organizations, international agencies and corporations, to expand its sustainable initiatives beyond the university. This partnership allows for the exchange of best practices, additional resources and interaction with experts in the field of sustainability.

Decision-Making Process:


Decision-making in the field of sustainable development at KazNMU is based on openness, dialogue, and consensus. KazNMU regularly holds consultations with stakeholders, organizes discussions and forums for exchanging opinions, and collects feedback. This allows for the consideration of various viewpoints and ensures broad support for sustainable initiatives.

4.3. ACCOUNTABILITY MECHANISMS

KazNMU strives to ensure a high level of transparency, accountability, and reporting in its sustainable efforts. Various mechanisms are employed to assess and monitor activities in the field of sustainable development.

Key Performance Indicators:

Specific key performance indicators (KPI) are used to measure progress towards sustainable development goals. These KPIs encompass various aspects of

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sustainability, such as energy efficiency, waste management, environmental safety, and social responsibility.

Reporting:

KazNMU regularly reports on its activities in the field of sustainable development, providing information on the implementation of strategic plans and progress in the realization of specific initiatives. Reports are disseminated among stakeholders and the public, ensuring transparency and openness in the university's operations.

External Audits and Assessments:

To validate the effectiveness of its sustainable initiatives, KazNMU conducts external audits and assessments performed by independent experts or organizations. These processes help the university receive feedback, evaluate its achievements, and identify areas for improvement.


5. GOALS AND OBJECTIVES

5.1. LONG-TERM SUSTAINABLE DEVELOPMENT GOALS

KazNMU sets ambitious long-term goals in sustainable development, reflecting its commitment to environmental, social, and economic sustainability. These goals represent fundamental aspects of sustainable development aimed at improving the environment, social well-being, and efficient resource utilization.

KazNMU aims to:

1. **Energy Efficiency:** Improve the energy efficiency of university facilities and infrastructure to reduce energy consumption and greenhouse gas emissions.
2. **Deployment of Renewable Energy Sources:** Increase the proportion of renewable energy sources, such as solar and wind energy, to reduce dependence on fossil fuels.
3. **Waste Reduction:** Develop and implement waste sorting and recycling programs, as well as reduce the volume of waste generated by university activities.
4. **Water Conservation:** Implement measures and technologies to conserve water resources and reduce water consumption in university buildings and on campus.

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5. Preservation of Biodiversity: Protect and support biodiversity on campus, including the creation of green areas and greening of the campus.

6. Climate Resilience: Develop and implement climate change adaptation strategies, including infrastructure reinforcement, emergency preparedness, and reducing vulnerability to climate change.


5.2. SHORT-TERM GOALS AND KEY PERFORMANCE INDICATORS (KPIs)

To achieve its long-term goals, KazNMU establishes specific short-term objectives and key performance indicators (KPIs) to assess progress and ensure the implementation of action plans. These goals are SMART (specific, measurable, achievable, relevant, and time-bound) and cover various aspects of sustainable development:

1. Energy Efficiency: Reduce energy consumption by 10% within the first two years, measured in kWh.
2. Deployment of Renewable Energy Sources: Increase the proportion of solar energy utilization to 20% of the total campus energy consumption within the next three years.
3. Reduction of waste: Increasing the volume of sorting and sending waste for recycling to 100% of the total volume.
4. Water Conservation: Decrease water consumption by 15% within the first year, measured in cubic meters.
5. Preservation of Biodiversity: Implement a plan for planting additional trees and creating natural zones on the campus within two years.
6. Climate Resilience: Develop an evacuation and emergency response plan for emergencies such as floods or extreme weather conditions within the first year.

5.3. ALIGNMENT WITH UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS (SDGs)

KazNMU aligns its goals in sustainable development with the United Nations Sustainable Development Goals (SDGs) to integrate its initiatives into the global sustainable development strategy and contribute to the achievement of global

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objectives. The university's projects and programs support SDGs such as poverty eradication, ensuring health and well-being, achieving environmental sustainability, and promoting social justice. KazNMU actively participates in global discussions and initiatives related to sustainable development to exchange experiences and contribute to the creation of a common strategy for achieving the SDGs.

6. ENVIRONMENTAL SUSTAINABILITY

6.1. ENERGY CONSERVATION AND EFFICIENCY

KazNMU undertakes a wide range of measures to reduce energy consumption and enhance energy efficiency at all levels of its operations. Energy audits are conducted regularly to identify areas where energy can be saved and to implement appropriate solutions. KazNMU invests in modern technologies such as LED lighting, energy-efficient heating and air conditioning systems, and automated energy management systems to optimize energy use in buildings.

6.2. INTEGRATION OF RENEWABLE ENERGY SOURCES


KazNMU strives to increase the share of renewable energy sources in its energy balance. The university is actively developing projects to install solar panels on the roofs of KazNMU buildings, wind generators on campus and the use of geothermal energy to meet electricity needs.

6.3. WASTE REDUCTION AND RECYCLING

KazNMU implements strategies to reduce the volume of generated waste and increase their secondary recycling. This includes the implementation of a waste separation system across the entire campus, educating students and staff on proper waste management, and collaborating with local waste management organizations to ensure their reuse or disposal.

6.4. WATER RESOURCE CONSERVATION AND EFFICIENT USE

KazNMU makes efforts to reduce water consumption and comply with quality standards. Modern sanitary facilities with low water consumption are installed in educational buildings and public areas, as well as systems for collecting and using

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rainwater. Additionally, educational programs for students and staff are conducted on water-saving practices and rational water use.

6.5. BIODIVERSITY OF CONSERVATION

KazNMU is taking steps to conserve and restore the local ecosystem on the campus premises. This includes the establishment of greenery, landscaping surrounding areas, as well as the implementation of programs for the protection and breeding of local plant and animal species. KazNMU also conducts scientific research and monitoring to assess the state of biodiversity and its changes due to the university's activities. As part of these efforts, activities are carried out to green the campus, restore disappearing plant species, and maintain biodiversity in surrounding ecosystems.

6.6. PROMOTING ECOLOGICAL LITERACY AND AWARENESS


KazNMU actively conducts educational campaigns and events to enhance ecological literacy and awareness among students, staff, and the local community. These initiatives include lectures, seminars, workshops, roundtable discussions, and other formats aimed at discussing sustainable development issues, climate change, environmental protection, and participation in solving ecological problems.

6.7. CONTINUOUS IMPROVEMENT AND MONITORING

KazNMU continues to strive for improvement in its practices and policies regarding ecological sustainability. This includes ongoing monitoring of the effectiveness of initiatives and the application of continuous improvement principles in all aspects of its operations. Additionally, the university actively researches and implements new technologies and methods aimed at reducing its ecological footprint and ensuring more efficient resource utilization.

6.8. PARTNERSHIP AND COLLABORATION

KazNMU also actively cooperates with other organizations and government agencies in the field of sustainable development and environmental protection. This partnership includes the exchange of knowledge, experience and resources, as well

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as joint projects and research aimed at solving environmental problems and promoting sustainable development both locally and globally.

7. CLIMATE CHANGE RESILIENCE AND ADAPTATION

7.1. CLIMATE RISK ASSESSMENT

KazNMU invests significant efforts in assessing climate risks to accurately identify potential threats and develop appropriate adaptation strategies. This includes analyzing various aspects such as the likelihood of extreme weather events, sea-level rise, and changes in climatic conditions. Conducting assessments helps identify vulnerable areas in both infrastructure and ecosystems and plan measures to enhance resilience.


For this purpose, KazNMU actively collaborates with climate experts, climatologists, engineers, and local stakeholders. This interdisciplinary approach provides a comprehensive overview of risks and helps develop adaptive strategies aimed at protecting infrastructure, preserving ecosystems, and ensuring community safety.

7.2. INFRASTRUCTURE RESILIENCE PLANNING

In its infrastructure planning and development projects, KazNMU actively considers aspects of climate change resilience. Buildings, roads, and engineering communications are designed with potential hazards in mind, such as floods, storms, and abnormal temperatures. KazNMU implements sustainable technologies and environmentally friendly approaches to infrastructure, which help enhance adaptation capabilities and reduce vulnerability to climate change. Investments in such projects contribute to reducing negative environmental impact and ensure sustainable development.

7.3. EMERGENCY PREPAREDNESS

An essential part of KazNMU's sustainability strategy is supporting readiness for emergencies. Regular drills, training, and simulations help staff, students, and emergency response services prepare for possible climate challenges. KazNMU actively collaborates with local emergency management authorities and government

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agencies to develop effective response plans and coordinate efforts to ensure safety and protect society.

7.4. COMMUNITY ENGAGEMENT

KazNMU recognizes that successful adaptation to climate change requires broad public participation. KazNMU actively engages with local communities by conducting informational events, seminars, and educational programs to raise awareness and mobilize citizens to action. Collaboration with public organizations and indigenous groups helps foster mutual understanding and develop joint adaptation strategies that consider the specific characteristics and needs of each community. Such a collective approach contributes to the formation of more resilient and interconnected societies capable of effectively addressing the challenges of climate change.

8. SOCIAL EQUALITY AND ENVIRONMENTAL JUSTICE


8.1. JUSTICE CONSIDERATIONS IN SUSTAINABLE DEVELOPMENT

KazNMU strives to create a fair and inclusive society through its sustainable development initiatives. Recognizing that equality, diversity, and inclusivity are integral parts of this process, KazNMU actively works to ensure that all members of the university community have equal access to opportunities and benefits.

KazNMU conducts a thorough assessment of equality, examining the social implications of its sustainable development projects. This enables the university to identify and eliminate inequalities, as well as promote social justice. Collaboration with marginalized and vulnerable population groups is an important aspect of this work to ensure their representation and consider their interests in the development of sustainable development strategies.

8.2. ELIMINATING OF ENVIRONMENTAL INJUSTICE

KazNMU also actively advocates for the elimination of environmental injustice, recognizing that certain population groups face unequal impacts from environmental degradation and climate change. KazNMU advocates for policy reforms, supports initiatives aimed at ensuring environmental justice, and actively promotes the participation of community groups in environmental decision-making.

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Collaboration with organizations advocating for environmental justice helps the university develop and implement effective measures to combat inequality in access to resources and environmental protection.

8.3. INITIATIVES IN DIVERSITY AND INCLUSION

KazNMU actively promotes a culture of diversity and inclusion within its sustainable development programs and initiatives. KazNMU strives to create an inclusive environment for all members of the university community by supporting various forms of diversity and encouraging participation in community life.


Support for affinity groups, cultural organizations, and diversity initiatives helps the university create an inclusive environment where everyone feels accepted and respected. KazNMU also actively works to ensure diversity in leadership positions and decision-making bodies to ensure that the voices of all population groups are heard and respected.

8.4. COMMUNITY ENGAGEMENT PROGRAMS

KazNMU actively participates in various community outreach programs aimed at addressing social and environmental issues, as well as promoting sustainable development at both local and national levels. KazNMU closely collaborates with local schools, non-governmental organizations (NGOs), government agencies, and community groups to implement various initiatives aimed at raising awareness, improving public health, and expanding the rights and opportunities of the community.

Community engagement programs include organizing various events such as educational seminars, meetings, and training sessions on sustainable development issues. The aim of such events is not only to inform the public about environmental issues and social inequalities but also to motivate action and active participation in addressing these issues.

KazNMU also actively involves its students, faculty, and staff in volunteer activities, service learning projects, and other civic engagement activities. This helps not only to spread ideas of sustainable development among the local population but also to instill in students a sense of civic responsibility and global citizenship.

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Participation in such programs allows KazNMU to create productive interactions with society, build trust and support from the public, and actively contribute to social and environmental initiatives at various levels.

9. ACADEMIC INTEGRATION

9.1. INTEGRATION OF CURRICULUMS


KazNMU integrates principles, concepts, and practices of sustainable development into its academic curriculum to educate and empower students to become leaders in sustainable development and agents of change in their respective fields. KazNMU offers courses, programs, and learning opportunities that incorporate interdisciplinary perspectives, hands-on learning, and the application of sustainable development principles in the real world. KazNMU collaborates with faculty, departments, and academic units in developing courses, research projects, and educational resources oriented towards sustainable development, providing students with the knowledge, skills, and values needed to address complex issues in sustainable development and contribute to sustainability.

9.2. RESEARCH OPPORTUNITIES

KazNMU supports interdisciplinary research initiatives that expand knowledge, inform policy, and address pressing issues of sustainable development at local, regional, and global levels. KazNMU encourages a culture of innovation, collaboration, and research driven by inquiries that enable evidence-based solutions to environmental, social, and economic challenges. KazNMU invests in research infrastructure, funding opportunities, and interdisciplinary research centers specializing in sustainability-related topics such as climate change mitigation, biodiversity conservation, renewable energy, and public health. KazNMU encourages faculty, researchers, and students to participate in collaborative research projects, interdisciplinary partnerships, and knowledge exchange activities that contribute to the advancement of science and practice of sustainable development.

9.3. STUDENT INITIATIVES

KazNMU provides students with opportunities to play an active role in shaping the university's sustainable development agenda and driving positive change on campus and in the community. KazNMU supports student initiatives, clubs, and

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organizations that promote awareness, advocacy, and action on sustainable development. KazNMU provides funding, mentorship, and resources to student groups engaged in sustainable development projects, campaigns, and events. The university encourages student participation in competitions, conferences, and leadership programs in sustainable development to develop their skills, expand their networks, and deepen their understanding of sustainable development issues. KazNMU also offers opportunities for student engagement through internships, research assistantships, and service-learning projects, allowing students to apply classroom knowledge to address real-world sustainable development challenges.

9.4. INTERDISCIPLINARY COLLABORATION


KazNMU fosters interdisciplinary collaboration among faculty, researchers, and students to address complex challenges of sustainable development from various perspectives. The university facilitates the creation of interdisciplinary research clusters, working groups, and joint projects that bring together experts from different disciplines to address sustainable development issues comprehensively. KazNMU promotes interdisciplinary approaches to teaching, learning, and problem-solving that foster innovation, creativity, and systems thinking. The university provides support in the form of grants for interdisciplinary research, interdisciplinary courses, and interdisciplinary academic programs that transcend disciplinary boundaries and promote collaboration across faculties and colleges.

10. OPERATIONAL INTEGRATION

10.1. SUSTAINABLE PROCUREMENT PRACTICES

KazNMU applies sustainable procurement practices while promoting social responsibility and supporting the local economy. KazNMU considers environmental and social criteria in its procurement processes, supplier selection and purchasing decisions. KazNMU prioritizes purchasing environmentally friendly products, recycled materials and ethically sourced goods. KazNMU partners with suppliers who demonstrate a commitment to sustainable development, transparency and ethical business practices. KazNMU is also involved in fair trade initiatives, green procurement policies and supply chain audits to ensure compliance with sustainability standards and encourage responsible consumption and production.

10.2. GREEN BUILDING STANDARDS

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KazNMU adheres to green building standards and certification systems in the design, construction, and operation of environmentally friendly buildings and structures. The university integrates energy-efficient technologies, environmentally friendly materials, and passive design strategies into construction projects to minimize energy consumption, reduce carbon emissions, and improve indoor environmental quality.


KazNMU aims to obtain green building certifications such as LEED (Leadership in Energy and Environmental Design) and BREEAM (Building Research Establishment Environmental Assessment Method) to confirm its commitment to sustainable development and demonstrate leadership in green building practices. KazNMU also conducts post-occupancy evaluations and performance assessments of buildings to monitor energy usage, occupant satisfaction, and environmental impact over time.

10.3. CARBON NEUTRALITY STRATEGIES

KazNMU is developing carbon neutrality strategies to reduce greenhouse gas emissions and achieve carbon neutrality within its activities. KazNMU assesses its carbon footprint, sets emissions reduction targets and develops action plans to track progress and improve performance over time. KazNMU engages stakeholders, raises awareness and promotes behavior change initiatives to stimulate carbon reduction efforts throughout the campus community.

10.4. SUSTAINABLE FOOD OPTIONS

KazNMU promotes environmentally friendly food products and practices that support health, environmental sustainability, and social responsibility. KazNMU offers local, organic, and seasonal produce in its cafeterias, canteens, and dining services. KazNMU favors plant-based menus, vegetarian options, and environmentally friendly seafood to reduce the impact of food production and consumption on the environment. KazNMU supports efforts to reduce food waste, composting programs, and community gardens to minimize food waste and promote principles of a circular economy. KazNMU educates students, staff, and visitors about sustainable food choices, healthy eating habits, and the importance of ensuring food sustainability through educational campaigns, culinary demonstrations, and nutrition seminars.

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11. PARTNERSHIPS AND COLLABORATION

11.1. LOCAL AND GLOBAL PARTNERSHIPS


KazNMU collaborates with local and global partners to achieve sustainable development goals, share best practices and leverage collective experience and resources. KazNMU engages with government agencies, non-profit organizations, industry partners and community groups to address common challenges and opportunities in sustainable development. KazNMU develops strategic partnerships with academic institutions, research centers and international organizations to promote interdisciplinary research, capacity building and knowledge exchange in areas related to sustainable development. KazNMU participates in sustainable development networks, consortia and joint initiatives that promote collaboration, innovation and collective action on regional and global sustainable development issues.

11.2. INDUSTRY ENGAGEMENT

KazNMU collaborates with industry partners and stakeholders to promote innovation, entrepreneurship, and technology transfer in support of sustainable development goals. The university works with private sector companies, startups, and industry associations to develop sustainable technologies, products, and services that address pressing environmental and social issues. KazNMU offers industry-sponsored research projects, internships, and professional development opportunities for students and faculty to gain practical experience and contribute to industry initiatives in sustainable development. KazNMU also provides consulting services, technical assistance, and educational programs to support industry partners in implementing sustainable practices, improving resource efficiency, and enhancing corporate social responsibility.

11.3. CHARITABLE PARTNERSHIPS

KazNMU cultivates philanthropic partnerships and relationships with donors to secure funding and support for sustainable development projects, scholarships, and initiatives. KazNMU collaborates with philanthropic foundations, charitable trusts, and individual donors who share its commitment to sustainable development and social impact. KazNMU seeks charitable support for research in sustainable development, educational programs, infrastructure projects, and community engagement activities that advance its mission and goals in sustainable development.

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KazNMU acknowledges the contributions of its philanthropic partners through naming opportunities, recognition events, and donor acknowledgment initiatives.


11.4. JOINT RESEARCH INITIATIVES

KazNMU engages in joint research initiatives and collaboration projects with academic institutions, research organizations and government agencies to address complex challenges of sustainable development through interdisciplinary research and innovation. KazNMU collaborates with national and international research consortia, funding agencies and research networks to bring expertise, resources and infrastructure to bear on sustainable development research. KazNMU develops research partnerships that facilitate knowledge exchange, capacity building, and technology transfer in key areas such as climate change, renewable energy, environmental protection and public health. KazNMU provides grants for joint research, joint research centers and exchange programs that promote interdisciplinary collaboration and facilitate the joint creation of knowledge. KazNMU encourages faculty, researchers and students to participate in joint research initiatives, consortia and international projects aimed at solving problems of sustainable development at the local, regional and global levels.

12. COMMUNICATION AND INFORMATION DISSEMINATION ACTIVITIES

12.1. INTERNAL COMMUNICATION STRATEGIES

KazNMU employs internal communication strategies to engage and mobilize stakeholders in efforts to ensure sustainable development, cultivate a culture of sustainability, and raise awareness of initiatives and achievements in sustainable development. KazNMU utilizes various communication channels such as newsletters, intranet portals, and staff meetings to disseminate information, exchange updates, and solicit feedback on topics related to sustainable development. KazNMU organizes training sessions for staff, workshops, and seminars to familiarize employees with goals, policies, and best practices in sustainable development. KazNMU encourages open dialogue, promotes staff participation, and acknowledges staff contributions to sustainable development through internal communication platforms and recognition programs.

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12.2. EXTERNAL ENGAGEMENT

KazNMU engages with external stakeholders, including government organizations, industry partners, non-profit organizations and the broader community, to raise awareness, build partnerships and facilitate collaboration on sustainable development initiatives. KazNMU participates in conferences, seminars and events on sustainable development to demonstrate its efforts in the field of sustainable development, share lessons learned and network with colleagues and stakeholders. KazNMU partners with the media, social media platforms and online forums to amplify its sustainability messages, reach diverse audiences and inspire action on sustainability issues. KazNMU uses its reputation, experience and connections to influence policy, advocate for sustainable development solutions and stimulate positive change at the local, national and global levels.


12.3. EDUCATIONAL AND AWARENESS CAMPAIGNS

KazNMU conducts educational and awareness campaigns to enhance literacy in sustainable development, expand opportunities for behavior change, and mobilize collective action to address sustainable development challenges. KazNMU develops educational materials, interactive tools, and multimedia resources to engage students, faculty, staff, and the broader community in learning and action on sustainable development. KazNMU organizes events, campaigns, and contests on sustainable development topics to raise awareness about environmental issues, promote sustainable lifestyles, and celebrate achievements in sustainable development. KazNMU collaborates with schools, community groups, and youth organizations to integrate sustainability education into formal and informal learning environments and inspire future generations of leaders in sustainable development.

13. MONITORING AND EVALUATION

13.1. KEY SUSTAINABILITY INDICATORS

KazNMU establishes key performance indicators (KPIs) for monitoring progress, measuring performance, and evaluating the effectiveness of its sustainable development initiatives and programs. KazNMU identifies KPIs for each sustainable development goal, setting targets, benchmarks, and timelines for achievement. KazNMU regularly tracks KPIs, collects relevant data, and analyzes trends to assess progress towards sustainable development goals, identify areas for improvement, and inform decision-making processes. KazNMU reports on its sustainable

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development activities, disseminates results to stakeholders, and uses feedback to refine strategies and priorities for continuous improvement.

13.2. DATA COLLECTION AND REPORTING


KazNMU implements data collection and reporting mechanisms to gather information, monitor sustainability indicators, and report on progress towards goals and objectives in sustainable development. KazNMU collects data from various sources, including energy and water meters, waste audits, greenhouse gas inventories, and stakeholder surveys. KazNMU maintains databases, dashboards, and reporting platforms to manage sustainability data, analyze trends, and generate reports. KazNMU prepares annual sustainability reports, compliance reports, and disclosure statements to inform internal and external stakeholders about its sustainability performance, comply with regulatory requirements, and enhance transparency.

13.3. CONTINUOUS IMPROVEMENT PROCESSES

KazNMU applies continuous improvement processes to review, assess, and enhance its initiatives, practices, and systems in sustainable development. KazNMU conducts periodic reviews, assessments, and audits of sustainability indicators to identify strengths, weaknesses, opportunities, and threats. KazNMU engages stakeholders through feedback mechanisms, focus groups, and consultations to gather information, solicit proposals, and determine priority actions for improvement. KazNMU promotes a culture of learning, innovation, and adaptation, where lessons learned from successes and failures are used to inform future decisions and ensure continuous progress towards sustainable development goals.

13.4. STAKEHOLDER FEEDBACK MECHANISMS

KazNMU establishes stakeholder feedback mechanisms to gather information, address issues, and involve stakeholders in decision-making processes related to sustainable development and management. KazNMU provides stakeholders with channels to submit feedback, suggestions, and requests related to sustainability initiatives, policies, and programs. KazNMU responds to stakeholder feedback promptly, transparently, and respectfully, acknowledging diverse perspectives and valuing the contributions of stakeholders. KazNMU encourages open dialogue, trust,

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and collaboration with stakeholders through regular communication, consultation forums, and participatory decision-making processes.

14. Thematic Research and Best Practices

14.1. SUCCESSFUL PROJECTS IN SUSTAINABLE DEVELOPMENT


KazNMU showcases successful projects in sustainable development and best practices that demonstrate innovation, impact, and replicability in addressing sustainability challenges. KazNMU highlights thematic research and initiatives in sustainable development that have achieved measurable results, led to positive outcomes, and inspired others to take action. KazNMU shares lessons learned, success stories, and best practices through reports, presentations, and knowledge exchange platforms to inform and inspire action in sustainable development within the university and beyond.

14.2. LESSONS LEARNED

KazNMU reflects on lessons learned from past experiences, challenges, and failures in implementing initiatives and programs in sustainable development. KazNMU identifies factors that contributed to success or failure, analyzes root causes, and extracts key insights for decision-making and planning for the future. KazNMU promotes a culture of reflection, continuous learning, and adaptive management, where feedback from experience is used to refine strategies, enhance performance, and increase organizational resilience.

14.3. Reproducibility of Strategies

KazNMU identifies strategies, approaches, and interventions that can be replicated and scaled to address sustainable development challenges in various contexts and conditions. KazNMU evaluates the potential for disseminating successful sustainable development practices, taking into account factors such as institutional context, resource availability, and stakeholder engagement. KazNMU develops guiding principles, toolkits, and resources to support other institutions, organizations, and communities in adopting and adapting proven sustainable development strategies. KazNMU collaborates with partners, networks, and knowledge exchange platforms to disseminate replicable strategies and facilitate

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their implementation for broader impact and transformation in the field of sustainable development.

15. Conclusion

15.1. Key Achievements and Milestones


KazNMU acknowledges key achievements and milestones in advancing sustainable development, recognizing the contributions of stakeholders and marking progress towards sustainable development goals. KazNMU highlights notable accomplishments, breakthroughs, and transformative changes resulting from efforts to promote sustainable development. KazNMU expresses gratitude to individuals, groups, and organizations that have supported initiatives in sustainable development and contributed to achieving positive outcomes. KazNMU reflects on its journey, achievements, and lessons learned, inspiring continued commitment and actions aimed at a more sustainable future.

15.2. Directions for the Future

KazNMU identifies future directions and priorities for advancing sustainable development, setting new goals, and addressing emerging challenges. KazNMU identifies areas for improvement, innovation, and growth in sustainable development practices, scientific research, and education. KazNMU formulates its vision of sustainable development for the coming years, presenting a more sustainable, resilient, and equitable future for the university and its stakeholders. KazNMU aims for continual engagement, collaboration, and leadership in sustainable development, driving positive change and contributing to global efforts to address sustainability challenges.

15.3. Call to Action

KazNMU calls on all stakeholders to unite efforts, share experiences, and take collective responsibility for promoting sustainable development. KazNMU invites individuals, groups, and organizations to participate in initiatives related to sustainable development, share knowledge, and collaborate in finding solutions to urgent environmental and social issues. KazNMU urges stakeholders to apply principles of sustainable development in their daily lives, work, and decision-making processes, recognizing the interconnection of environmental, social, and

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economic issues. KazNMU calls on policymakers, industry leaders, educators, researchers, and citizens to prioritize sustainable development, advocate for policy reforms, and invest in sustainable solutions that benefit people and the planet. KazNMU emphasizes the importance of collective action, solidarity, and cooperation in addressing global sustainability challenges and achieving common goals for a sustainable future.

This comprehensive policy on sustainable development and climate change mitigation for KazNMU serves as a guiding framework for integrating principles, practices, and initiatives in sustainable development into all aspects of university activities, management, and academic work. Viewing sustainable development as a core value and strategic priority, KazNMU demonstrates its commitment to promoting environmental stewardship, social justice, and climate resilience, while inspiring positive changes within the university community and beyond. Through collaboration, innovation, and continuous improvement, KazNMU strives to set an example and contribute to building a healthier and more sustainable world for current and future generations.