



*Approved by the Academic Council  
non-profit joint stock company «S.Seifullin  
Kazakh Agrotechnical Research University»  
06.12.2023*



# **CLIMATE ACTION PLAN**

## **S. SEIFULLIN KAZAKH AGROTECHNICAL RESEARCH UNIVERSITY CLIMATE CHANGE ACTION PLAN 2023-2030**



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## **1. Campus Management and Emissions Reduction (Decarbonization)**

This section aims to minimize the university's carbon footprint.

### ◆ *Energy Efficiency and Consumption Reduction:*

Conducting an energy audit of buildings and infrastructure.

Implementing energy-saving technologies (LED lighting, smart HVAC control systems, building insulation).

Installing monitoring systems for real-time energy consumption analysis.

### ◆ *Transition to Renewable Energy Sources (RES):*

Installing solar panels on campus rooftops where feasible.

Signing contracts for the purchase of "green energy" (from RES) to cover the remaining energy needs.

Adopt a Net Zero Strategy by 2050. Develop a step-by-step Action Plan based on the GHG Protocol, including an Inventory and Baseline Data Collection (2024–2026) and the Creation of an Integrated Climate Model (2026–2029).

### ◆ *Transportation:*

Developing infrastructure for bicycles (parking, cycle paths) and electric scooters.

Encouraging the use of public transport and shuttle buses for staff and students.

Reducing business air travel (e.g., by 25% by 2030) through the use of video conferencing.

### ◆ *Water Consumption and Waste Management:*

Implementation of water-saving technologies (plumbing fittings with low water consumption).

Adopt a separate Water Resources Management Policy.

Developing a system for segregated collection and recycling of waste (paper, plastic, glass, organic waste).

Phasing out single-use plastics in canteens and cafes.

Develop a comprehensive Waste Management System (2041–2050).

## **2. Education and Research**

The University is a center of knowledge that must prepare future specialists capable of solving climate problems.

### ◆ *Integration of the Climate Agenda:*

Incorporating topics of sustainable development and climate change into the curricula of all disciplines (not just environmental ones). For example, in economics, engineering, law, and the arts.

Developing interdisciplinary courses and programs on climatology, adaptation, and mitigation.

Strengthen specialized educational programs such as: Agroecology, Organic Farming, Forest Resources, Landscape Design, Sustainable Management of Natural Resources, etc.



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◆ *Support for Climate Research:*

Allocating grants and resources for scientific projects focused on developing RES technologies, climate modeling, sustainable agriculture, etc.

Creating an interdisciplinary climate center/laboratory.

◆ *Professional Development:*

Conducting trainings and seminars for faculty and staff on sustainable development issues.

Establish an Environmental Sustainability Research Centre (ESRC). The center should focus on fundamental and applied research in green technologies and low-carbon development, including the commercialization of scientific research.

### **3. Community Engagement and Information**

The University should use its potential to influence the local and global community.

◆ *Information Campaigns:*

Regularly holding Climate Weeks, lectures, workshops, and competitions for students and the public.

Publishing an annual report on sustainable development and climate goals.

Support student communities on sustainable development (e.g., student clubs «Eco Life», «Ormanshy») to promote student-led initiatives.

Develop a Policy on Assessing Sustainability Literacy and Knowledge for the University Community

◆ *Collaboration with Local Authorities:*

Participating in the development and implementation of city/regional climate plans.

Providing expert support to local authorities and businesses.

### **4. Governance and Monitoring**

Clear governance and accountability are essential for the plan's success.

◆ *Policy and Goal Development:*

- Official adoption of the "University Climate Change Policy".
- Establishing Specific, Measurable, Achievable, Relevant, and Time-bound (SMART) goals, for example
- Achieve carbon neutrality by 2050.
- Reduce energy consumption by 20% by 2030 (relative to the baseline year).
- Increase the share of RES to 50% by 2035.

◆ *Governance Structure:*

Creating a sustainable development working group/committee that includes representatives from administration, faculty, staff, and students.

◆ *Monitoring and Reporting:*



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- Regular monitoring of progress against all set goals and publishing data (e.g., on energy and water consumption).
- Participating in international sustainability rankings for benchmarking.
- Maintain a Code of Ethics and anti-corruption measures as the foundation of effective governance. Adopt a Tobacco Prevention Policy (linked to the social aspects of sustainability and health).