



KHALEL DOSMUKHAMEDOV ATYRAU UNIVERSITY





Affordable and clean energy

Dosmukhamedov Atyrau

University contributes to the achievement of the UN Sustainable Development Goal No. 7 "Affordable and clean Energy" through scientific research, the development of environmentally sustainable technologies and the training of specialists for the green economy. The University supports initiatives aimed at exploring renewable energy sources, improving energy efficiency, and implementing environmentally sound solutions.



Research and innovation



Научные исследования университета охватывают широкий круг вопросов, связанных с энергетикой и устойчивым развитием. Среди реализуемых проектов — AP19174589 «Влияние дефектов на атомные и электронные свойства дихалькогенидов переходных металлов на основе платины», а также исследования по энергоэффективности зданий, анализу энергообеспечения жилищного хозяйства Казахстана, взаимосвязи энергопотребления, загрязнения окружающей среды и экономического роста.

Дополнительный вклад в развитие экологически устойчивых технологий вносят студенческие проекты экологического клуба «Экос», направленные на переработку отходов, создание экологически безопасных материалов и развитие принципов циркулярной экономики.



Education and environmental culture

Educational events and environmental initiatives contribute to the formation of a culture of sustainable energy consumption. As part of the "Taza Kazakhstan" campaign, a curatorial hour "Zhasyl Energy: Kun Zhane zhel energiyasy" was organized for students, dedicated to solar and wind energy, the advantages of renewable energy sources and their role in environmental protection.





Sustainable university environment



Atyrau University named after H. Dosmukhamedova supports the principles of sustainable development through the implementation of environmental and energy initiatives on campus. One example is the use of solar panels and alternative energy elements that promote the popularization of renewable energy sources and the formation of a culture of responsible energy consumption among students and staff. An additional confirmation of the university's commitment to the principles of sustainable development is its participation in the UI GreenMetric international rating, which evaluates the environmental infrastructure, energy efficiency and environmental policy of universities.



Sustainable energy infrastructure of the campus



The University is actively implementing energy-efficient technologies and equipment to reduce electricity consumption and improve energy efficiency throughout the campus.

LED lighting systems are installed in all academic buildings and administrative offices. Currently, the university operates 2,825 energy-efficient devices, which is 61.8% of the total number of electrical appliances on campus.

To further reduce energy consumption, lamps equipped with motion sensors were installed in individual rooms, which allows you to automatically adjust the lighting depending on the workload.

In addition, the university encourages the use of renewable energy technologies. There are two solar-powered charging gazebos on the campus, which provide students and staff with environmentally friendly means of charging mobile devices. These measures contribute to reducing energy consumption, reducing greenhouse gas emissions, and support the university's commitment to sustainable campus management and environmental responsibility.



FUTURE STEPS TOWARDS ACHIEVING SDG 7

Atyrau University named after H. Dosmukhamedova will continue to develop research and educational initiatives in the field of renewable energy, energy efficiency and environmentally sustainable technologies.

Among the priority areas of development:

- expansion of research in the field of solar and wind energy;
- support for student environmental and energy startups;
- development of international cooperation in the field of sustainable energy;
- implementation of modern energy saving technologies and environmentally friendly solutions;
- improving students' environmental literacy in matters of clean energy and rational use of resources;
- strengthening the university's position in international sustainable development rankings.

The implementation of these areas will allow the university to strengthen its contribution to the development of the green economy, the training of future specialists and the achievement of the UN Sustainable Development Goal No. 7 "Affordable and clean energy".



Экокампус — экологиялық
таза және тұрақты даму
қағидаттарына негізделген
университеттік
инфрақұрылым мен ортаны
құру



Мақсаты:

- Экологиялық мәдениетті қалыптастыру
- Қалдықтарды сұрыптау және қайта өңдеу
- Университеттің қоршаған ортаға деген жауапкершілігін арттыру

ЫҚ ЖАЛПОВ

