



ENERGY EFFICIENCY MEASURES AND BUILDING UPGRADE PLAN



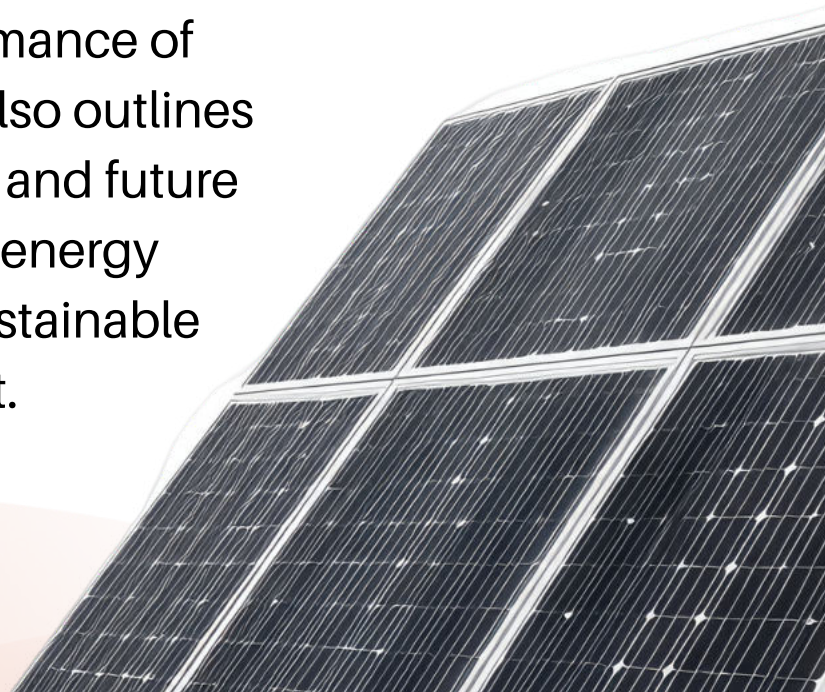
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Energy-efficient lighting systems

Mingachevir State University is committed to improving energy efficiency, promoting the rational use of energy resources, and reducing energy losses across its facilities.

In line with its sustainable development objectives and Affordable and Clean Energy Policy, the University undertakes initiatives to optimise electricity consumption, improve lighting efficiency, and enhance the monitoring of heating resources.

This document presents the University's implemented energy-efficiency measures and planned improvements aimed at enhancing the energy performance of existing university buildings. It also outlines relevant institutional objectives and future directions for more efficient energy management in support of sustainable campus development.



Mingachevir State University is gradually replacing existing lighting systems with energy-efficient technologies to reduce electricity consumption and improve energy performance across its facilities. The University's Affordable and Clean Energy Policy also identifies smart lighting technologies as a measure to support more efficient energy management.



Evidence: SDG 7 – Affordable and Clean Energy Report, “Actions for a Green World” section, p. 8; Affordable and Clean Energy Policy, p. 4.

<https://sustainable.mdu.edu.az/wp-content/uploads/2026/03/Energy-Efficiency-and-Green-Infrastructure-Policy.pdf>

Date: Ongoing activity; the report does not specify the exact installation dates.

Official source: <https://mdu.edu.az>



Optimisation of Electricity Consumption

The University identifies the optimisation of electricity consumption and the reduction of energy losses in electricity and heat supply systems as key objectives of its energy policy. According to the SDG 7 Report, electricity consumption in university buildings is being gradually optimised. These measures support the more rational use of energy resources and the continuous improvement of campus energy performance.



Evidence: SDG 7 – Affordable and Clean Energy Report, “Objectives” and “Actions for a Green World” sections, pp. 3 and 8.

<https://sustainable.mdu.edu.az/wp-content/uploads/2026/04/SDG-7-Report-2025-1.pdf>

Monitoring of heating resources

Sustainable and innovative energy solutions for
a cleaner and brighter future.



Mingachevir State University's SDG 7 Report identifies the use of digital monitoring systems to manage heating resources more effectively. The University's Affordable and Clean Energy Policy also highlights the reduction of energy losses in heat supply systems and the introduction of heating-control technologies as important directions for improving energy efficiency. These measures provide an institutional basis for improving the monitoring and management of heating resources in university facilities.



Energy efficiency initiatives

Mingachevir State University implements additional initiatives that support energy efficiency, renewable energy development, and sustainable campus management.

On 30 September 2025, the University held the “Technological Solutions for Optimizing Green Office Consumption” competition. Participants examined energy losses and inefficiencies in lighting and heating systems and proposed smart energy management, sensor-based lighting, and climate-control solutions.

Solar panels have been installed in the University’s main academic building as part of its transition towards renewable energy technologies.

On 3 November 2025, the University organised the “Energy Efficiency and Green Technologies” hackathon, during which participants developed ideas for reducing energy losses and improving energy monitoring and consumption optimisation.





Energy-sector organisations collaborating with MSU

- ✓ Azerbaijan Thermal Power Plant LLC
- ✓ Mingachevir Hydropower Plants Cascade
- ✓ Mingachevir Regional Electric Network



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Additional evidence links



1. <https://sustainable.mdu.edu.az/wp-content/uploads/2026/04/net-zero-emissions-roadmap-2030.pdf>
2. <https://sustainable.mdu.edu.az/wp-content/uploads/2026/03/Zero-Emission-Policy.pdf>
3. <https://sustainable.mdu.edu.az/wp-content/uploads/2026/04/Climate-action.pdf>
4. https://sustainable.mdu.edu.az/wp-content/uploads/2026/03/MSU-Sustainable-Development-Plan_compressed.pdf
5. <https://sustainable.mdu.edu.az/wp-content/uploads/2026/03/Climate-Change-Mitigation-Policy.pdf>
6. <https://sustainable.mdu.edu.az/wp-content/uploads/2026/03/Energy-Efficiency-and-Green-Infrastructure-Policy.pdf>
7. <https://sustainable.mdu.edu.az/wp-content/uploads/2026/03/Sustainable-Development-Policy.pdf>
8. <https://sustainable.mdu.edu.az/2026/05/26/nspp-26-05-26/>
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11. <https://sustainable.mdu.edu.az/2026/05/08/riverside-electro-08-05-26/>

Additional evidence links



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22. <https://sustainable.mdu.edu.az/2025/12/16/workshop-held-at-azerbaijan-thermal-power-plant-llc-within-the-energy-cluster-framework-organized-by-mingachevir-state-university-and-azerbaijan-technical-university/>
23. <https://sustainable.mdu.edu.az/2025/12/06/mingachevir-state-university-and-azerbaijan-technical-university-sign-strategic-cooperation-memorandum-in-electric-power-engineering-at-international-conference-on-sustainable-development/>