

# REPORT ON SDG 7: AFFORDABLE AND CLEAN ENERGY





# INTRODUCTION

The report highlights the comprehensive efforts of Sumgayit State University in shaping a sustainable future for generations to come.

The University actively supports Sustainable Development Goal 7 through a comprehensive approach that includes key policies, operates advanced research laboratories, regularly measures and reports carbon emissions, and promotes innovation in clean and affordable energy. SSU also hosts conferences and public events, and participates in national and international projects focused on renewable energy and sustainability. These efforts reflect SSU's strong commitment to environmental responsibility and the global clean energy transition.







# Sumgayit State University publishes a range of policy documents focused on different directions

**Climate Action and Sustainability Policy** supports the examination of dimate change causes, explores solutions to address these issues, and promotes the evaluation of environmental education efforts.

Sustainable Procurement Policy establishes a framework to ensure all procurement activities contribute to improved sustainability. SSU is committed to continually enhancing its efforts to recognize and take responsibility for any negative environmental, social, or economic effects related to its purchasing decisions.

Sustainable Investment Policy ensures that the University's financial investments are directed toward promoting a deaner environment and fostering a healthier future.

Sustainability Policy on Donations and Funding sets forth the guiding principles for receiving and managing donations, highlighting the importance of ethical conduct, transparency, and sustainability in the University's fundraising practices.



### **Research laboratories**

The following laboratories are equipped with modern stands, advanced computer systems, network infrastructure, and multimedia tools, supporting education and research aligned with SDG 7 by promoting energy efficiency, innovation in clean energy technologies, and sustainable practices.

**1. Laboratory of electrical engineering and measuring equipment** 

2. Fundamentals of electrical engineering

- 3. Heat engineering laboratory
- 4. Energy laboratory 1
- 5. Energy laboratory 2
- 6. Energy Management Laboratory
- 7. Laboratory of electric machines
- 8. Electrical transmission laboratory
- 9. Energy engineering laboratory





### Measurement And Reporting of Carbon Emissions

SSU is committed to transparency and accountability in our efforts to mitigate climate change. In accordance with our commitment to sustainability, the University rigorously monitors and reports its total Scope 1 and 2 carbon emissions, exemplified by figures of 825 tones (tCO2e) in 2022 and 732 tonnes (tCO2e) in 2023, 659 tones (tCO2e) in 2024 reflecting our ongoing efforts to quantify and mitigate direct emissions from sources such as on-campus fossil fuel combustion (Scope 1) and indirect emissions from purchased electricity (Scope 2).



# **Events on Clean Energy and Sustainability Initiatives**



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#### **P** Climate Management School

SSU hosted the Climate Management School, supported by Saïd Business School, University of Oxford. This two-day program brought together professionals from academia and industry to discuss the environmental, economic, and social impacts of dimate change.

#### Energy Talks Seminar

In collaboration with the Azerbaijan Energy Regulatory Agency (AERA), SSU organized a seminar as part of the "Energy Talks" project. The seminar focused on the energy system of Azerbaijan and renewable energy targets, providing insights into the country's efforts to transition to sustainable energy sources.



9 NOTICIMENTS





#### The International Forum on Climate Education

SSU co-hosted the international forum "Prioritizing Climate Education on the Global Higher Education Agenda" in partnership with the Ministry of Science and Education and Times Higher Education. The forum aimed to enhance the role of higher education institutions in supporting SDG 13 (Climate Action) and SDG 7 by encouraging joint cooperation to address the climate crisis.



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#### Stations Field Visit to Renewable Energy Stations

Students from the Faculty of Physics and Electroenergetics visited renewable energy facilities in Gobustan, including wind, solar, biogas, and hybrid power stations. This excursion allowed students to observe the practical applications of renewable energy technologies, enhancing their understanding of sustainable energy practices.





### Projects on Affordable and Clean Energy

Sumgayit State University (SSU) is a partner in the Erasmus+ REFRESH project, titled "Green and Sustainable Global Economic Development in Azerbaijani Universities: Renewable Energy Sources and Climate Change Mitigation". This project, aims to enhance the integration of renewable energy and climate change mitigation strategies into higher education curricula in Azerbaijan. This collaboration underscores SSU's commitment to advancing sustainable energy solutions and addressing climate change through education and research.







### Conferences aligned with Sustainable Development Goal 7

**"Energy Efficiency and Green Energy Technologies"** Conference

SSU co-organized a republican scientific conference on "Energy Efficiency and Green Energy Technologies." The conference focused on training engineering personnel in the field of energy, emphasizing the importance of increasing energy efficiency in both production and consumption in modern times.

Conference on "Protection of Ecology and life activities: achievements and problems"

The Conference focuses on critical environmental issues and the challenges faced in safeguarding ecological balance. The conference brought together experts, researchers, and students to discuss the progress made in ecological protection, sustainable development, and environmental management.

