

# Sumgayit State University

## REPORT ON SDG 15: Life on Land



**SUMGAYIT STATE  
UNIVERSITY**

# Report Outline



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# Free Resource Page

Use these official Sustainable Development Goal elements in your Canva presentation.





# Sumgayit State University

Each member of the university must responsibly fulfill the ethical values and obligations reflected in this policy, and employees, students and other members of the organization must be provided with appropriate instructions regarding the values and obligations defined in the policy document. The University embraces diversity, integrity, respect and fairness as core ethical organizational values. These values should be applied to all activities of the university and are the basis of the life of the organization. One of the important functions of Sumgayit State University is to provide the necessary equipments and services to fulfil the duties of its departments, chairs, scientific and educational centres and other structural units as stipulated by law.





# Collaborations and Partnerships

SSU cooperates with local and regional environmental organizations, research institutes and relevant conservation institutions to enhance soil ecosystem protection efforts. These partnerships support the university's research, education, and policy initiatives focused on the sustainable management of land resources. Through these collaborations, SSU strengthens its leadership role in the development of soil conservation practices in Azerbaijan.

The university actively cooperates with local and foreign companies. For example, Oxford University and Sumgayit State University have started cooperation within the framework of "Climate Change". It also closely cooperates with the Ministry of Ecology and Natural Resources of the Republic of Azerbaijan on the assessment of carbon emissions. Measurement and evaluation of SSU and its international carbon emissions are carried out in these structures.

# Rüsearch and Scientific Activities







The university is actively engaged in research on soil biodiversity, pollution control and ecosystem restoration. Key areas of research include: Employees of Sumgayit State University, with the support of FAO and Food Safety Agency of the Republic of Azerbaijan, carried out the monitoring of pesticide-contaminated lands in Yevlakh district by an international expert. At the event, the head of the Department of Chemical Engineering and Ecology of the Faculty of Engineering, Assoc. T.M.Babayeva and associate professor of that department, A.H. Ibrahimov participated.

University employees obtain organic fertilizer from food waste. At the same time, workers pay attention to the collection and use of batteries.

The practical projects carried out by the university are land protection, some oil industry polluted land restoration projects. The recognition of Sumgayit city as an industrial zone and environmental vision in this region Sumgayit University implements more environmental restoration projects. University researchers and faculty participate in these projects, conduct laboratory and field research, help clean up contaminated land, restore natural balance, and implement sustainable land use methods. Application of environmental innovations and special assistance using microbiological technological technology in these works. In the treatment of oil-contaminated soils and the laboratory of the department. T.M.Babayeva, Assoc. N.D. Ashurova, Assoc. R. R. Ahmadova, b/m A. Sh. Aliyeva and others joined.

## Awareness and Educational Initiatives



SSU's Ecology and Environmental Engineering programs equip students with essential knowledge and skills in land ecosystem conservation. Students receive both theoretical and practical training in sustainable agriculture, ecological security, and biodiversity conservation. These programs prepare students to implement ecological solutions applicable not only in Azerbaijan but also at a global level.

SSU collaborates with international universities and ecological research centers, enabling its students and faculty to engage in ecological research and training programs and benefit from international expertise.

Azerbaijan's economy is significantly reliant on agriculture and the oil sector, but the development of these sectors poses risks to land ecosystems.

Issues such as soil erosion, salinization, and oil pollution reduce soil productivity and lead to agricultural losses. SSU's research efforts address these issues and provide crucial ecological and economic solutions for the country.





## SCIENTIFIC RESEARCH

SSU carries out numerous scientific research projects related to the protection of the soil ecosystem. The Department of Chemical Engineering and Ecology of the University conducts research and contributes to new scientific knowledge in this field. Research is focused on topics such as prevention of soil erosion, selection of salt-resistant plant species, maintenance of microbiological balance, and restoration of soil nutrients. These research activities aim to ensure ecosystem sustainability, increase soil productivity and develop sustainable agricultural practices.



## PRACTICAL PROJECTS AND INNOVATIONS

SSU participates in practical projects, including the restoration of soil ecosystems polluted by the oil industry. Given the industrial nature of Sumgayit, the university implements a number of ecological restoration projects, with students and faculty conducting laboratory and field research to support soil cleanup, restoration of natural balance, and implementation of sustainable land use practices. These projects emphasize the application of ecological innovations and microbiological technologies.



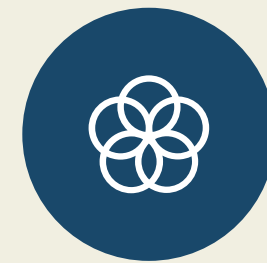
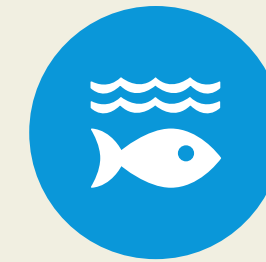
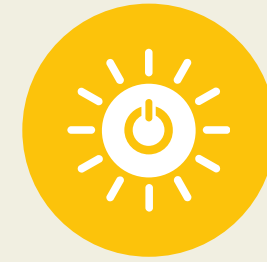
## EDUCATIONAL PROGRAMS AND COURSES

SSU's Ecology and Environmental Engineering programs equip students with basic knowledge and skills in protecting the soil ecosystem. Students receive both theoretical and practical training in sustainable agriculture, environmental security and biodiversity conservation. These programs prepare students to implement environmental solutions that are applied not only in Azerbaijan, but also globally.

# SDU Activities on Soil Ecosystem Protection

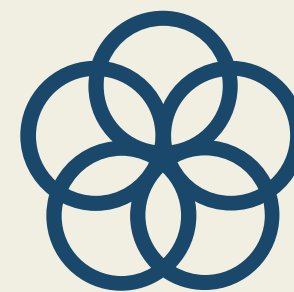
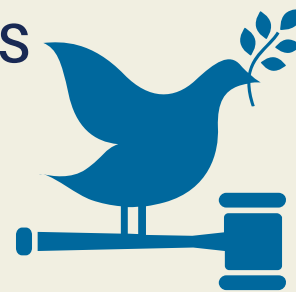
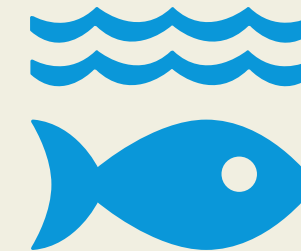
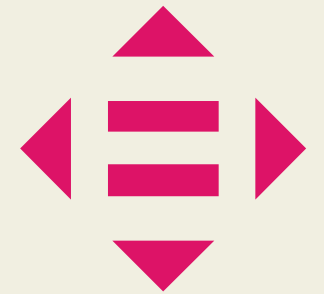
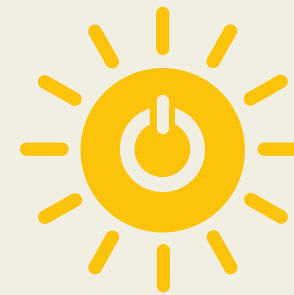
# On-Campus Initiatives

1. On campus, SSU implements a number of strategies aimed at directly reducing environmental impact, particularly related to soil quality and waste management. Some notable events are:
2. Recycling and Waste Segregation Programs: The university promotes a comprehensive recycling program, with bins for sorting plastic, paper, metal, and organic waste placed strategically across campus. By actively engaging students and staff in waste segregation, SSU reinforces the importance of reducing waste pollution—a significant threat to marine environments.



# Research and Partnerships

SSU's commitment to SDG 15 extends to its research programs and partnerships with local and international organizations. The university actively supports research projects focused on analysis of soil biodiversity, pollution tracking and soil monitoring. Faculty and students engage in field research, examining the soils of nearby industrial areas to monitor levels of biodiversity and sources of pollution. Through cooperation with research institutes, SSU has access to advanced information and technologies that enhance research opportunities.





## Student Work and Extracurriculars Actions

**SSU encourages student involvement in soil conservation through environmental clubs and volunteer programs. These groups participate in activities such as land clearing, awareness campaigns, and internships in land conservation organizations. Through these experiential learning opportunities, students develop skills and knowledge that prepare them to be the future..**





## ADVANCED RESEARCH AND INNOVATION

By investing in advanced equipment and collaborating with leading environmental organizations, the university plans to support cutting-edge research that can inform local and regional conservation policies. Planned research initiatives include extracting organic fertilizers from cigarette waste, assessing soil pollution levels and analyzing the effects of climate change on soil ecosystems.



## EXPANDED EDUCATIONAL PROGRAMS AND CURRICULA

The university plans to develop new courses and academic programs focused on land conservation, environmental management and sustainable development. These programs will combine theoretical knowledge with practical skills in soil ecology, environmental policy. SSU also envisions creating interdisciplinary courses that integrate aspects of engineering, environmental science, and economics to provide students with a comprehensive understanding of soil sustainability issues.

# Future Plans for SDG 15: Life on Land

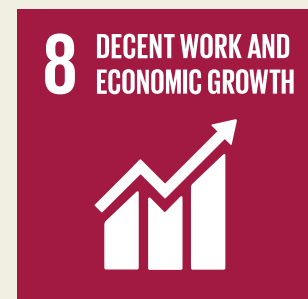
There are 17 SDGs and 169 targets in total. While they are all important and interrelated, some will be more relevant to your business than others. This section can identify the specific SDGs and targets your organization is prioritizing, and demonstrate how they align with your own business strategy and goals.



**Strengthening Sustainable Campus Practices**  
SSU aims to implement more environmentally friendly practices on campus to minimize land pollution and reduce waste. Future plans include improving campus facilities to meet waste management and standards. The University will also work to reduce waste, recycle and achieve zero waste campus status.



## THE GLOBAL GOALS



Strategic Partnerships and International Collaboration  
SSU recognizes the importance of global cooperation to achieve SDG 15. The university plans to establish partnerships with international universities, research institutes and environmental organizations to share knowledge and collaborate on joint projects. The purpose of these partnerships is to support research initiatives, provide student exchanges, and provide opportunities for faculty to participate in the global debate on marine conservation.



## Conclusion

Land ecosystem conservation holds strategic importance

for Azerbaijan. By supporting ecological problem-solving and training future environmentalists, SSU plays a crucial role in this area. Through its projects and educational programs on sustainable agriculture and ecological security, SSU contributes to Azerbaijan's ecological resilience. Expanding the university's activities in this area will enhance environmental awareness, biodiversity conservation, and environmental protection efforts in the country.

