



UI GreenMetric Questionnaire

University : Baku State University
Country : Azerbaijan
Web Address : <http://bsu.edu.az/en>
SDG Focused Web Address: <https://sdg.bsu.edu.az/>

[6] Education & Research

[6.16] Number of sustainability-related startups (ED.9)

No	Information
1.	NeuroScreen Employees: 4 students under BDU's Tələbə Elmi-Texniki Yaradıcılıq Mərkəzi Date established: 2025 Startup category in UI GreenMetric questionnaire (SI, EC, WS, WR, TR, ED): SI (Sustainable Innovation / Smart Innovation) Description: <i>NeuroScreen</i> is an innovative assistive technology system developed by Baku State University's Student Scientific-Technical Creativity Center (SSTCC). The project is designed to read and filter brain signals of paralyzed patients, enabling them to control IoT-based smart home devices, digital tools, and robotic organs. Key features include: • Real-time health monitoring for patients. • AI-based medical assessments for personalized care. • Integration with smart home systems to enhance independence and accessibility. A user-friendly interface allowing seamless interaction with connected devices. The project won first place in the "Accessible Life Technologies" category at <i>TEKNOFEST-2025 Istanbul</i>, competing among 565,776 teams from 96 countries, showcasing BSU's leadership in smart, inclusive, and sustainable innovation.





<https://sdg.bsu.edu.az/news/teknofest-2025-winner-bsu-team-warmly-welcomed>

2. FICS Startup Project

Employees: 4 students under BDU's Tələbə Elmi-Texniki Yaradıcılıq Mərkəzi

Date established: 2025

Startup category in UI GreenMetric questionnaire (SI, EC, WS, WR, TR, ED): SI (Sustainable Innovation / Smart Innovation)

Description:

The FICS Startup Project is an innovative initiative developed by students of Baku State University's Student Scientific-Technical Creativity Center (SSTCC). The project represents BSU in the international *Finding Innovative and Creative Solutions (FICS) 2025* startup competition, focusing on promoting creative problem-solving and entrepreneurial thinking among university students.

The first stage of the competition was held on May 27, 2025, jointly organized by Azerbaijan Technical University and the National University of Sciences and Technology (NUST) of Pakistan. The event featured participation from 60 teams representing 21 universities across Azerbaijan, as well as international teams.

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Key achievements and features include:

- Achieved **3rd place** in the FICS 2025 startup competition.
- Qualified for the **grand final in Pakistan** (August 2025).
- Promotes **innovation and entrepreneurship skills** among students.
- Encourages development of **creative and practical solutions** to real-world problems.

FICS, established in 2013, is one of the largest and most prestigious startup competitions in Pakistan. Participation and success in this competition highlight BSU's growing role in fostering innovation, international collaboration, and sustainable development-oriented student initiatives.

http://bsu.edu.az/en/news/bsu_students_win_at_fics_2025_startup_competition



3.	AgroScan Employees: 3 students (Faculty of Biology and Faculty of Ecology and Soil Science, BSU) Date established: 2025 Startup category in UI GreenMetric questionnaire (SI, EC, WS, WR, TR, ED): SI (Sustainable Innovation / Smart Innovation) Description: AgroScan is an innovative smart agriculture system developed by students of Baku State University within the project “Application of Artificial Intelligence in Precision Agriculture,” implemented by the Agrarian Innovation Center of the Ministry of Agriculture. The project is based on artificial intelligence-powered hyperspectral analysis technology designed to monitor plant health and soil conditions in real time. By analyzing hyperspectral images, AgroScan detects early indicators such as water stress, plant diseases, and productivity levels, providing timely insights to farmers through a mobile application.  Key features include: • AI-based hyperspectral analysis for early detection of plant stress and diseases. • Real-time monitoring of soil and crop conditions. • Mobile application for accessible and user-friendly data visualization. • Optimization of resource use (water, fertilizers), reducing waste and costs. • Contribution to environmentally sustainable and efficient agricultural practices. AgroScan enhances precision agriculture by enabling data-driven decision-making, improving crop productivity, and supporting sustainable resource management. The project demonstrates BSU students’ contribution to smart, innovative, and environmentally responsible agricultural solutions. https://sdg.bsu.edu.az/news/bsu-students-present-their-startups-within-the-project-application-of-artificial-intelligence-in-precision-agriculture	
4.	BSU Creativity Workz – SuperCapBack project Startup category in UI GreenMetric questionnaire (SI, EC, WS, WR, TR, ED): SI (Sustainable Innovation / Smart Innovation) Date established: 2024 Employees: 5–7 students under BDU’s Tələbə Elmi-Texniki Yaradıcılıq Mərkəzi Description: SuperCapBack is an innovative electric vehicle (EV) battery enhancement system developed by Baku State University’s student team “BSU Creativity Workz.” It replaces traditional Li-ion batteries with a hybrid combination of double-layer EDLC supercapacitors and Li-ion batteries. The system includes AC-DC converters and a cooling mechanism to mitigate the harmful effects of high-amperage currents generated during	



regenerative braking and rapid acceleration. Benefits include longer battery life, higher efficiency, and improved EV performance.

<https://muallim.edu.az/news/bdu-komandasinin-supercapback-layihesi-beynelxalq-musabiqenin-finalina-vesiqe-gazanib-67339ceaf06534f9e4a2eeba>

EV Charge

Startup category in UI GreenMetric questionnaire (SI, EC, WS, WR, TR, ED): SI (Sustainable Innovation / Smart Innovation) and EC

Date established: 2024

Employees: 2 students under BDU's Tələbə Elmi-Texniki Yaradıcılıq Mərkəzi

Description:

The **EVCharge Project** at Baku State University is an initiative aimed at promoting **sustainable mobility and the adoption of electric vehicles (EVs) on campus**. The project involves the **installation of electric vehicle charging stations**, the integration of smart energy management systems, and the promotion of low-carbon transportation solutions for students, faculty, and staff.



https://azertag.az/xeber/bdu_nun_komandasi_istanbulda_kechirilen_beynelxalq_tedbirde_istirak_e_dib-3288692



Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

Student-Led Startups and Innovation Projects

-  A BSU student team was recognized for winning at TEKNOFEST 2025, highlighting their innovative and sustainability-oriented technological project.

<https://sdg.bsu.edu.az/news/teknofest-2025-winner-bsu-team-warmly-welcomed>



- ✚ An information session was held at Baku State University to introduce students to TEKNOFEST 2025, providing details on participation opportunities, competition categories, and encouraging student involvement in innovation and technology projects.
http://bsu.edu.az/az/news/bduda_teknofest2025l_bal_infosessiya
- ✚ BSU, in collaboration with KOBIA, established an EcoEnergy station on campus to promote renewable energy solutions and practical sustainability applications.
<https://sdg.bsu.edu.az/news/bsu-and-kobia-open-ecoenergy-station-on-campus>
- ✚ BSU students presented startup ideas within a project focused on applying artificial intelligence to precision agriculture and sustainable farming.
<https://sdg.bsu.edu.az/news/bsu-students-present-their-startups-within-the-project-application-of-artificial-intelligence-in-precision-agriculture>
- ✚ An information session introduced students to the international “Green and Digital Silk Road” startup acceleration program supporting sustainable innovations.
<https://sdg.bsu.edu.az/news/information-session-on-the-international-startup-acceleration-program-green-and-digital-silk-road-at-bsu>
- ✚ This masterclass provided students with foundational knowledge about startup ecosystems, entrepreneurship, and innovation development.
<https://sdg.bsu.edu.az/news/masterclass-at-bsu-introduction-to-the-startup-ecosystem>
- ✚ Three BSU student teams advanced to the finals of a competition supporting innovative student initiatives and entrepreneurial ideas.
<https://sdg.bsu.edu.az/news/three-bsu-teams-reach-the-finals-of-the-support-for-student-initiatives--project-vernissage-competition>
- ✚ A BSU student won an individual grant competition aimed at transforming innovative ideas into real startup projects.
[https://sdg.bsu.edu.az/news/the-student-from-the-baku-state-university-\(bsu\)-sabah-groups-has-won-the-turn-your-idea-into-reality-individual-grant-competition](https://sdg.bsu.edu.az/news/the-student-from-the-baku-state-university-(bsu)-sabah-groups-has-won-the-turn-your-idea-into-reality-individual-grant-competition)
- ✚ A specialized masterclass guided students on establishing and developing startups, with a focus on practical entrepreneurial skills.
<https://sdg.bsu.edu.az/news/masterclass-on-establishing-and-developing-a-startup-at-the-faculty-of-geography>
- ✚ This workshop introduced students to innovative applications of artificial intelligence in agriculture, supporting sustainable and tech-driven solutions.
<https://sdg.bsu.edu.az/news/the-first-workshop-of-the-project-titled-application-of-artificial-intelligence-in-precision-agriculture-organized-by-the-agricultural-innovation-center-at-bsu-has-been-held>
- ✚ The IRRIGO project is a student-driven sustainable agricultural innovation selected as a finalist at TEKNOFEST 2025, focusing on efficient water use and ecosystem management.
<https://sdg.bsu.edu.az/news/the-project-irrigo--sustainable-agricultural-ecosystem-which-will-be-established-on-the-bbsu-campus,-will-be-featured-in-the-finals-of-the-teknofest-2025-shc>

✚ **Startup Ecosystem and Capacity Building Activities**

- ✚ The event explored renewable energy initiatives and future perspectives, promoting sustainability awareness and innovation among students and experts.
<https://sdg.bsu.edu.az/news/informative-meeting-on-renewable-energy-projects-and-future-perspectives>



- ✚ BSU participated in an international exhibition showcasing innovative solutions and creative approaches to sustainability and environmental protection.
<https://sdg.bsu.edu.az/news/bsu-participates-in-sustainability-exhibition-art-and-innovation-for-the-planet>
- ✚ The roundtable discussion addressed scientific innovation and biotechnology as key drivers for maintaining ecological balance and sustainable development.
[https://sdg.bsu.edu.az/news/a-roundtable-discussion-titled-scientific-innovation-and-biotechnology-new-perspectives-in-ensuring-ecological-balance-sustainability-was-held-at-baku-state-university-\(bsu\)](https://sdg.bsu.edu.az/news/a-roundtable-discussion-titled-scientific-innovation-and-biotechnology-new-perspectives-in-ensuring-ecological-balance-sustainability-was-held-at-baku-state-university-(bsu))
- ✚ The seminar examined carbon credit mechanisms and their potential opportunities for advancing climate action and sustainable economic practices.
<https://sdg.bsu.edu.az/news/scientific-seminar-at-bsu-carbon-credit-market-and-potential-opportunities>
- ✚ This seminar analyzed the solar energy potential of the East Zangezur region, contributing to research on renewable energy and sustainable resource utilization.
<https://sdg.bsu.edu.az/news/scientific-seminar-held-assessment-of-the-solar-energy-utilization-potential-in-the-east-zangezur-economic-region>
- ✚ The establishment of the ECOLEAD clinic supports sustainable development through applied research, community engagement, and environmental initiatives.
<https://sdg.bsu.edu.az/news/establishment-of-the-ecolead-clinic-at-bsu>
- ✚ The event focused on enhancing students' cybersecurity skills, supporting innovation and sustainable digital transformation.
<https://sdg.bsu.edu.az/news/development-of-baku-state-university-students-skills-in-the-field-of-cybersecurity-discussed>
- ✚ The event promoted awareness of green economy principles and their role in achieving sustainable development goals.
<https://sdg.bsu.edu.az/news/an-event-titled-green-economy-held-at-bsu>

✚ **Institutional and International Innovation Environment**

- ✚ BSU was represented at Pakistan's largest entrepreneurship expo, showcasing its innovation capacity and strengthening international collaboration in entrepreneurship.
<http://sdg.bsu.edu.az/news/bsu-represented-at-pakistans-largest-entrepreneurship-expo>
- ✚ The Times Higher Education Eurasian Universities Summit held in Baku brought together global academic leaders to discuss innovation, research, and higher education development.
<http://sdg.bsu.edu.az/news/the-times-higher-education-eurasian-universities-summit-held-in-baku>
- ✚ BSU participated with an exhibition stand at the summit, presenting its academic achievements and sustainability initiatives to an international audience.
<http://sdg.bsu.edu.az/news/bsu-represented-with-a-stand-at-the-times-higher-education-eurasian-universities-summit>
- ✚ This simulation event engaged students in discussions on sustainable development, enhancing their practical understanding of global challenges and cooperation.
<http://sdg.bsu.edu.az/news/global-dialogue-for-sustainable-development-simulation-at-bsu>



- ✚ An international scientific conference addressed modern technologies and methods for improving food and water security within the framework of sustainable development.
<http://sdg.bsu.edu.az/news/an-international-scientific-conference-on-the-topic-application-of-modern-equipment-and-methods-in-improving-food-and-water-security-is-being-held-at-bsu>
- ✚ BSU hosted an international experts meeting on global navigation satellite systems, fostering research collaboration and technological advancement.
<http://sdg.bsu.edu.az/news/bsu-hosts-international-experts-meeting-on-global-navigation-satellite-systems>
- ✚ A BSU representative explored research and innovation capabilities at Istanbul Gedik University to strengthen institutional cooperation.
<http://sdg.bsu.edu.az/news/director-of-bsu-student-scientific-technical-creativity-center-familiarized-himself-with-research-capabilities-of-istanbul-gedik-university>
- ✚ The Biology Faculty expanded its research partnerships with foreign universities, enhancing international scientific collaboration.
<http://sdg.bsu.edu.az/news/bsu-biology-faculty-expands-research-collaboration-with-foreign-universities>
- ✚ A BSU academic journal was included in the EBSCO international database, increasing its global visibility and research impact.
<http://sdg.bsu.edu.az/news/baku-state-universitys-journal-has-been-included-in-the-ebSCO-international-database>
- ✚ The BSU rector highlighted the importance of science in regional development during the Eurasian Universities Summit.
<http://sdg.bsu.edu.az/news/bsu-rector-spoke-on-the-role-of-science-in-regional-development-at-the-times-higher-education-eurasian-universities-summit>
- ✚ The BSU rector participated in the EduData Summit 2025, discussing the role of data and innovation in higher education development.
<http://sdg.bsu.edu.az/news/rector-of-bsu-elchin-babayev-speaks-at-a-session-during-edudata-summit--2025>
- ✚ BSU and Satbayev University conducted joint training on implementing Sustainable Development Goals, promoting international academic cooperation.
<http://sdg.bsu.edu.az/news/bsu-and-satbayev-university-of-kazakhstan-held-a-joint-training-on-the-implementation-of-sdgs>
- ✚ A BSU representative contributed to an international panel at the ICESCO forum, discussing global education and sustainability issues.
<http://sdg.bsu.edu.az/news/advisor-to-bsu-rector-speaks-at-international-panel-during-icesco-forum>
- ✚ Applications were announced for an international ICESCO training program aimed at developing young professionals in sustainability-related fields.
<http://sdg.bsu.edu.az/news/applications-are-open-for-icesco-second-training-program-for-young-professionals>



❖ **Memberships & institutional networks**

- ❖ BSU has become a member of the CANIE network to strengthen international cooperation in addressing climate change in higher education.

<http://sdg.bsu.edu.az/canie-membership>

- ❖ BSU was selected as a full member of the Global University Network for Innovation to enhance its global academic collaboration and sustainability efforts.

<http://sdg.bsu.edu.az/news/bsu-has-been-selected-as-a-full-member-of-the-global-university-network-for-innovation>

- ❖ BSU joined the International Sustainable Campus Network to support and develop sustainable practices in higher education institutions.

<http://sdg.bsu.edu.az/news/bsu-joins-the-international-sustainable-campus-network>

- ❖ BSU became a member of AASHE to strengthen its commitment to sustainability in higher education through international cooperation.

<http://sdg.bsu.edu.az/aashe-membership>

- ❖ BSU joined the CANIE global academic network to support collaborative efforts in combating climate change.

<http://sdg.bsu.edu.az/news/bsu-has-joined-the-global-academic-network-canie-to-combat-climate-change>

- ❖ BSU became a member of WAITRO to enhance international research and innovation cooperation in science and technology.

<http://sdg.bsu.edu.az/waitro-membership>

- ❖ BSU became a member of the Global University Network for Innovation (GUNI) to strengthen its engagement in international collaboration and sustainable development initiatives in higher education.

<http://sdg.bsu.edu.az/guni-membership>



➤ **BSU Sustainability Framework, Policies, Reports and Institutional Commitments**



- A mandatory training on environmental sustainability was conducted for BSU staff and students to promote sustainable practices across the university.
<https://sdg.bsu.edu.az/news/dedicated-mandatory-training-on-environmental-sustainability-for-staff-and-students>
- The official SDG portal of BSU provides comprehensive information on the university's sustainability initiatives, activities, and progress.
<http://sdg.bsu.edu.az/>
- This page outlines BSU's institutional policies supporting the implementation of Sustainable Development Goals.
<http://sdg.bsu.edu.az/university-policies>
- The SDG Reports section presents BSU's documented progress and achievements in advancing sustainable development goals.
<https://sdg.bsu.edu.az/sdg-reports>
- The Research Center page highlights BSU's scientific activities and research contributions related to sustainability.
<https://sdg.bsu.edu.az/research-center>
- This page provides a collection of all SDG-related news and activities organized at BSU.
<https://sdg.bsu.edu.az/allnews>
- This section presents BSU's commitment and strategic approach to implementing the Sustainable Development Goals.
<http://sdg.bsu.edu.az/bsu%60s-commitment-to-sdgs>
- The Climate Action Plan outlines BSU's strategies and measures to address climate change and reduce environmental impact.
<http://sdg.bsu.edu.az/climate-action-plan-action>
- The SDG Annual Progress Report 2025 summarizes BSU's yearly achievements and initiatives in sustainability.
<https://sdg.bsu.edu.az/sdg-annual-progress-report-2025>



- This document provides a detailed overview of BSU's 2025 sustainability progress, including data, activities, and outcomes.
<https://sdg.bsu.edu.az/uploads/files/ANNUAL%20PROGRESS%20REPORT%202025.pdf>
- This report highlights BSU's initiatives and contributions to achieving SDG 4 on quality education.
<http://sdg.bsu.edu.az/report-on-sdg-4-quality-education>
- This report outlines BSU's actions and research related to SDG 6 on clean water and sanitation.
<https://sdg.bsu.edu.az/report-on-sdg-6-clean-water-and-sanitation>
- This report presents BSU's efforts toward SDG 7 on affordable and clean energy.
<https://sdg.bsu.edu.az/report-on-sdg-7-affordable-and-clean-energy>
- This report showcases BSU's activities supporting SDG 11 on sustainable cities and communities.
<https://sdg.bsu.edu.az/report-on-sdg-11-sustainable-cities>
- This report details BSU's initiatives and impact related to SDG 13 on climate action.
<https://sdg.bsu.edu.az/report-on-sdg-13-climate-action>
- This report highlights BSU's contributions to SDG 15 on protecting terrestrial ecosystems and biodiversity.
<https://sdg.bsu.edu.az/report-on-sdg-15-life-on-land>
- This report presents BSU's collaborations and partnerships with national and international institutions to support the implementation of the Sustainable Development Goals.
<https://sdg.bsu.edu.az/report-on-sdg-17-partnership-for-the-goals>





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Memberships & institutional networks

