



UI GreenMetric Questionnaire

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

[2] Energy and Climate Change (EC)

[2.11] Please Provide The Total Carbon Footprint (CO₂ emission in the last 12 months, in metric tons)

Source	Previous year (tCO ₂ e)	Now (tCO ₂ e)	Notes
Electricity	1,371.96	823.18	Energy efficiency + renewable integration
Shuttle Buses	270.00	162.00	Fleet optimization, route efficiency, partial electrification
Cars (inside campus)	960.00	576.00	Reduced private car use, mobility policies
Motorcycles (inside campus)	960.00	576.00	Shift to low-emission transport alternatives
Gross Total CO₂ Emissions	3,561.96	2,137.18	Sum of reduced emissions

CATEGORY	VALUE (tCO ₂ E)
GROSS EMISSIONS (AFTER REDUCTION)	2,137.18
SUSTAINABILITY OFFSETS	1,341.96
NET CARBON FOOTPRINT	795.22

Description:

The table presents an updated greenhouse gas (GHG) emissions inventory and mitigation scenario based on a 40% reduction across all major emission sources. It includes direct and indirect emissions from electricity consumption and campus transportation activities, followed by the recalculated gross emissions, applied offsets, and resulting net carbon footprint.

Electricity consumption remains the largest single contributor to emissions. Initially accounting for 1,371.96 tCO₂e, it is reduced to 823.18 tCO₂e after efficiency improvements and increased integration of renewable energy sources. This reflects the impact of energy-saving measures such as improved building systems, smarter energy management, and cleaner electricity procurement.

Transportation-related emissions are also significant. Shuttle buses originally generate 270 tCO₂e, which decreases to 162 tCO₂e after optimization measures such as improved routing, higher occupancy rates, and partial transition to low-emission or electric vehicles. Private transport, including cars and motorcycles used inside the campus, represents a substantial portion of emissions. Each category initially contributes 960 tCO₂e, both of which are reduced to 576 tCO₂e following mobility management strategies aimed at reducing dependence on fossil-fuel-based transport and encouraging sustainable alternatives.

As a result of these reductions, the total gross emissions decrease from 3,561.96 tCO₂e to 2,137.18 tCO₂e, demonstrating a significant improvement in the overall carbon performance of campus operations.



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In parallel, the university applies sustainability offsets amounting to 1,341.96 tCO₂e, which include renewable energy generation, waste recycling initiatives, green commuting programs, and tree planting activities. When these offsets are considered, the net carbon footprint is reduced to 795.22 tCO₂e, compared to the original net value of 2,020 tCO₂e.

Overall, the results illustrate a substantial decarbonization trajectory, showing that integrated energy efficiency measures, sustainable mobility strategies, and offset programs can collectively reduce the university's carbon footprint by more than half.

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





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- <https://sdg.bsu.edu.az/> The official SDG portal of BSU showcases the university's sustainability initiatives, policies, reports, and achievements aligned with the Sustainable Development Goals.
- <https://sdg.bsu.edu.az/allnews> This page provides comprehensive updates on BSU's sustainability-related news, projects, conferences, and environmental initiatives.
- <https://sdg.bsu.edu.az/university-policies> This section presents BSU's institutional policies supporting sustainable development and climate responsibility.
- <https://sdg.bsu.edu.az/climate-action-policy> BSU's Climate Action Policy outlines the university's commitment to reducing emissions, promoting sustainability, and achieving net-zero targets.
- <https://sdg.bsu.edu.az/uploads/files/Climate%20action%20policy.pdf> This document provides detailed information about BSU's climate action objectives, sustainability measures, and carbon reduction strategies.
- <https://sdg.bsu.edu.az/sdg-reports> This section contains official sustainability reports demonstrating BSU's progress toward achieving the Sustainable Development Goals.
- <https://sdg.bsu.edu.az/report-on-sdg-7-affordable-and-clean-energy> This report highlights BSU's initiatives and achievements related to affordable and clean energy under SDG 7.
- <https://sdg.bsu.edu.az/uploads/files/SDG%207%202025.pdf> This document summarizes BSU's 2025 activities, projects, and outcomes supporting SDG 7 implementation.
- <https://sdg.bsu.edu.az/report-on-sdg-13-climate-action> This report presents BSU's activities, educational programs, and research initiatives focused on climate action and sustainability.
- <https://sdg.bsu.edu.az/uploads/files/SDG%2013%202025.pdf> This document details BSU's climate action achievements, emission reduction efforts, and SDG 13 progress for 2025.
- <https://sdg.bsu.edu.az/climate-action-plan> BSU's Climate Action Plan outlines the university's long-term sustainability goals and carbon neutrality commitments.
- <https://sdg.bsu.edu.az/climate-action-plan-action> This page explains BSU's Climate Action Plan for 2023–2030, including emission reduction strategies and sustainability initiatives.
- <https://sdg.bsu.edu.az/energy-efficiency-plan> BSU's Energy Efficiency Plan aims to reduce energy consumption and improve sustainable campus operations between 2023 and 2028.
- <https://sdg.bsu.edu.az/news/deputy-director-of-the-state-agency-on-renewable-energy-sources-delivers-a-masterclass-at-bsu> A masterclass at BSU focused on renewable energy development and sustainable energy solutions.
- <https://sdg.bsu.edu.az/news/bsu-represented-at-baku-energy-week> BSU participated in Baku Energy Week to showcase its contributions to energy sustainability and innovation.
- <https://sdg.bsu.edu.az/news/bsu-and-kobia-open-ecoenergy-station-on-campus> BSU and KOBIA jointly opened an eco-energy station on campus to promote renewable energy awareness and sustainable practices.
- <https://www.youtube.com/watch?v=Oz3j8mRqjJE> This video highlights BSU's sustainability and climate action initiatives related to energy efficiency and environmental awareness.



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- <http://sdg.bsu.edu.az/news/bsu-and-kobia-open-ecoenergy-station-on-campus>
- <https://baku.ws/social/bdu-nun-erazisinde-ekoloji-temiz-enerji-doldurma-menteqesinin-acilisi-olub>
- <https://muallim.edu.az/news/bduda-ekoenerji-menteqesi-acilib-685a39115845f5b88ef92e1d>
- <http://sdg.bsu.edu.az/news/new-unique-project--eco-space-at-the-university>
- <https://muallim.edu.az/news/baki-dovlet-universitetinde-eko-mekan-yaradilib-fotolar-6735e4381a7cb9916e5f9f1b>
- <http://sdg.bsu.edu.az/allnews>
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- <http://sdg.bsu.edu.az/news/bsu-represented-at-baku-energy-week>
- <http://sdg.bsu.edu.az/news/new-specialization-at-bsu-environmental-engineering>
- <http://sdg.bsu.edu.az/sustainable-investment-policy>
- <http://sdg.bsu.edu.az/news/a-scientific-seminar-will-be-held-organized-by-bsu-within-the-framework-of-the-baku-climate-action-week>
- <http://sdg.bsu.edu.az/news/research-on-hybrid-energy-systems-is-conducted-at-bsu>
- <http://sdg.bsu.edu.az/news/republic-scientific-conference-at-bsu-global-climate-change-and-modern-ecosystem-of-azerbaijan>
- <http://sdg.bsu.edu.az/news/scientific-seminar-on-research-of-topological-insulator-and-quantum-materials-with-thermoelectric-properties-at-bsu>



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- <http://sdg.bsu.edu.az/news/scientific-seminar-on-prospects-of-rechargeable-sodium-ion-batteries>
- <http://sdg.bsu.edu.az/news/representatives-of-the-peoples-republic-of-chinas-global-energy-interconnection-development-and-cooperation-organization-visit-bsu>
- <http://sdg.bsu.edu.az/report-on-sdg-7-affordable-and-clean-energy>
- <http://sdg.bsu.edu.az/academic-contribution-to-sdgs>
- <http://sdg.bsu.edu.az/news/bsu-collaborates-with-ngos-for-sustainable-development-goals>
- <http://sdg.bsu.edu.az/news/bsu-rector-elchin-babayev-collaboration-at-national-and-international-levels-is-essential-for-solving-environmental-problems>
- <http://sdg.bsu.edu.az/news/bsu-nano-research-laboratory-hosts-scientific-seminar-titled-nanomaterials-for-hybrid-solar-cells>
- <http://sdg.bsu.edu.az/news/bsu-and-kobia-open-ecoenergy-station-on-campus>
- [http://sdg.bsu.edu.az/news/baku-state-university-\(bsu\)-participated-in-the-ev-charge-show--a-global-meeting-platform-for-manufacturers-of-electric-vehicle-charging-stations](http://sdg.bsu.edu.az/news/baku-state-university-(bsu)-participated-in-the-ev-charge-show--a-global-meeting-platform-for-manufacturers-of-electric-vehicle-charging-stations)
- <http://sdg.bsu.edu.az/news/systematic,-planned-and-thoughtful-measures-are-being-implemented-in-our-country-to-combat-climate-change--elchin-babayev>
- <http://sdg.bsu.edu.az/news/baku-state-universitys-disciplines-regarding-contribution-to-the-sdgs>
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- <http://sdg.bsu.edu.az/times-higher-education-impact-rankings>
- <http://sdg.bsu.edu.az/news/a-young-scientist-of-bsu-is-conducting-research-on-green-energy-production>
- <http://sdg.bsu.edu.az/news/new-unique-project--eco-space-at-the-university>
- <http://sdg.bsu.edu.az/news/event-on-cop29-and-global-climate-change-at-bsu>
- <http://sdg.bsu.edu.az/news/national-youth-climate-statement-of-azerbaijan-adopted-at-the-un-local-conference-of-youth-on-climate-change>
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- <http://sdg.bsu.edu.az/news/scientific-seminar-at-bsu-carbon-credit-market-and-potential-opportunities>
- <http://sdg.bsu.edu.az/news/bsu-student-scientific-societys-seminar-series-persists-during-the-year-of-solidarity-for-a-green-world>
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