NAKHCHIVAN STATE UNIVERSITY

2023

SDG PROGRESS REPORT

7 AFFORDABLE AND CLEAN ENERGY

THE GLOBAL GOALS

Introduction

The Sustainable Development Goals (SDGs), also known as Global Goals, encompass 17 interconnected objectives aimed at eradicating poverty, protecting the planet, and promoting peace and prosperity by 2030. SDG 7, "Affordable and Clean Energy," focuses on ensuring access to affordable, reliable, sustainable, and modern energy for all. Nakhchivan State University (NSU) supports this goal through various initiatives, including the installation of energy-efficient windows, LED lighting, and renewable energy sources such as wind turbines and solar panels. NSU also monitors energy usage and hosts awareness programs to educate students and staff about sustainable energy practices. Through these efforts, NSU contributes to a greener campus and promotes the importance of clean energy within the community.

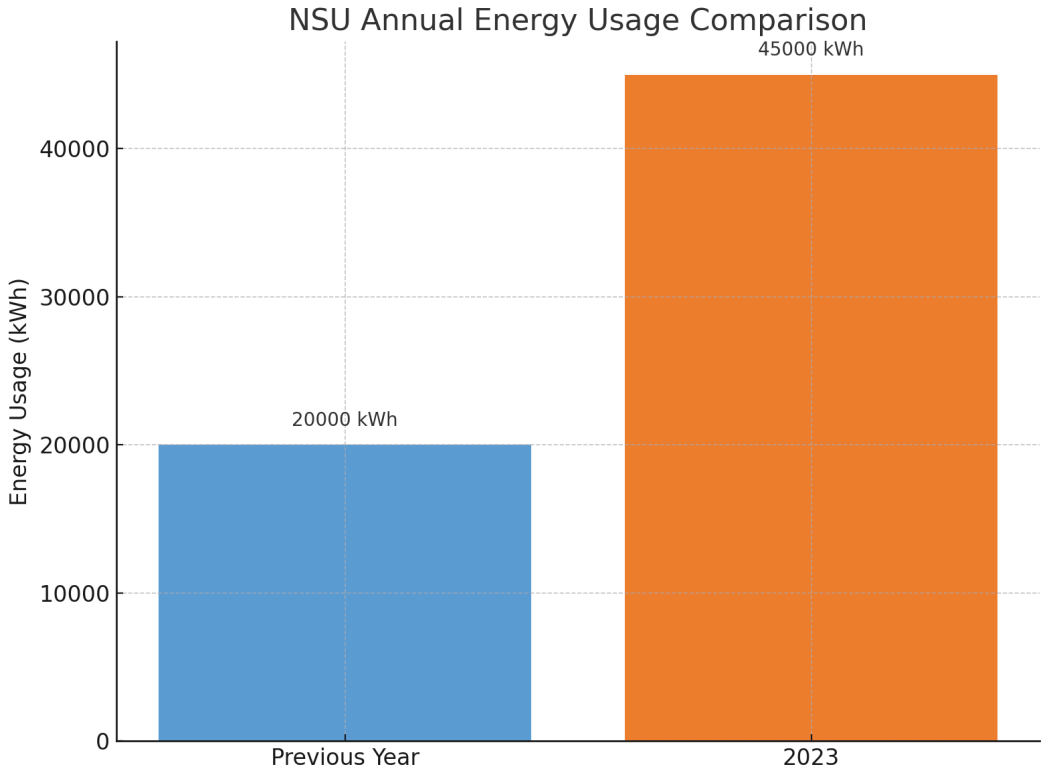
Nakhchivan State University (NSU) has made substantial progress toward SDG 7 through initiatives focused on sustainable energy use and efficiency. The university has equipped all buildings with energy-efficient windows, replaced lighting with LED alternatives, and expanded its renewable energy sources, now operating a wind turbine and three solar panels. To foster awareness and education, NSU conducts research, hosts open lessons on green energy, and collaborates internationally, strengthening its commitment to sustainable energy solutions in both practice and education.

Nakhchivan State University has made significant strides toward achieving SDG 7 through substantial initiatives aimed at sustainable energy use and efficiency. NSU's efforts encompass green energy production, energy efficiency measures, scientific research, and awareness activities.

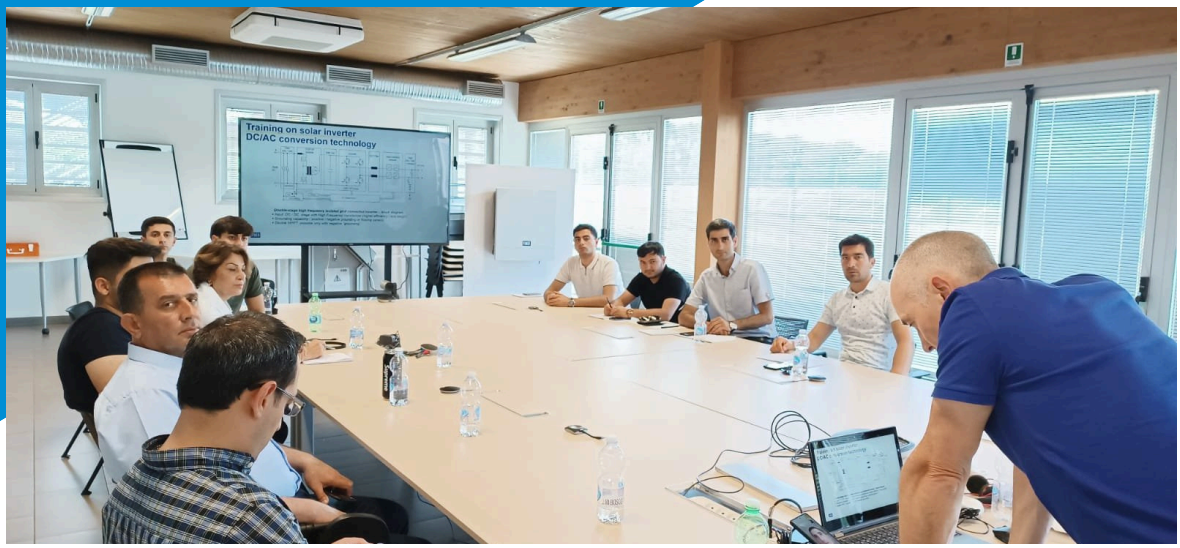
To enhance energy efficiency, NSU has equipped all campus buildings with energy-friendly windows and replaced lighting in all rooms with LED alternatives. These measures have greatly contributed to the university's efforts to conserve energy and reduce overall consumption.

In green energy production, NSU currently operates one wind turbine and two solar panels. In 2023, a third solar panel was added, underscoring the university's commitment to green energy progression. This addition has strengthened NSU's renewable energy capacity and furthered its goal of transitioning to sustainable energy sources.

To ensure energy use is managed responsibly, NSU conducts quarterly monitoring to review adherence to the university's energy policy. The monitoring results have shown a significant increase in energy usage; while NSU previously consumed 20,000 kWh, the total energy usage reached 45,000 kWh in 2023, indicating an additional 25,000 kWh. This rise reflects the expansion of NSU's infrastructure and its commitment to meeting the energy demands of its growing academic and operational activities.



NSU has also taken steps to raise awareness and foster educational opportunities in renewable energy. Faculty members published a research article titled “Solar Energy Resources in Nakhchivan” in an international journal, contributing to the global discourse on green energy. Additionally, NSU researchers participated in training sessions at the "Pure Energy Development" SARL facility in Wismar, Germany, focusing on solar panel production and alternative energy technologies.



To engage students and the community, NSU invited local school students to an open lesson on green energy at the university. NSU also organized research activities and open classes at the Julfa and Shahbuz Solar-Wind Hybrid Power Stations, offering students practical insights into energy efficiency and renewable technologies. Furthermore, NSU hosted a webinar on “The Key Directions of Azerbaijan’s Energy Diplomacy” and arranged an international internship for energy engineering students in Italy, promoting cross-border learning.

Nakhchivan State University actively promotes SDG 7 by engaging students in sustainable energy education. Through open lessons, practical sessions at local solar-wind hybrid power stations, and international internships, NSU equips students with essential knowledge in energy efficiency and renewable technologies, fostering a campus dedicated to a sustainable energy future.

Through these diverse measures, Nakhchivan State University has demonstrated a strong commitment to SDG 7 by expanding its renewable energy resources, optimizing energy efficiency, and engaging in local and international collaborations to raise awareness about sustainable energy. NSU’s efforts underscore the university’s dedication to addressing global energy challenges and advancing sustainable energy solutions in education and research.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