

As part of our ongoing commitment to environmental sustainability and promoting a culture of sustainability literacy, we are excited to introduce a new assessment tool designed to evaluate your knowledge and understanding of sustainability principles.

At Air University, we recognize the importance of equipping our faculty, staff, and students with the necessary knowledge and skills to address environmental challenges and contribute to sustainable practices both within and beyond our campus.

The Sustainability Literacy Assessment Tool aims to:

Evaluate your current level of understanding of sustainability concepts, including environmental, social, and economic dimensions.

Identify areas of strength and areas for improvement in your sustainability literacy.

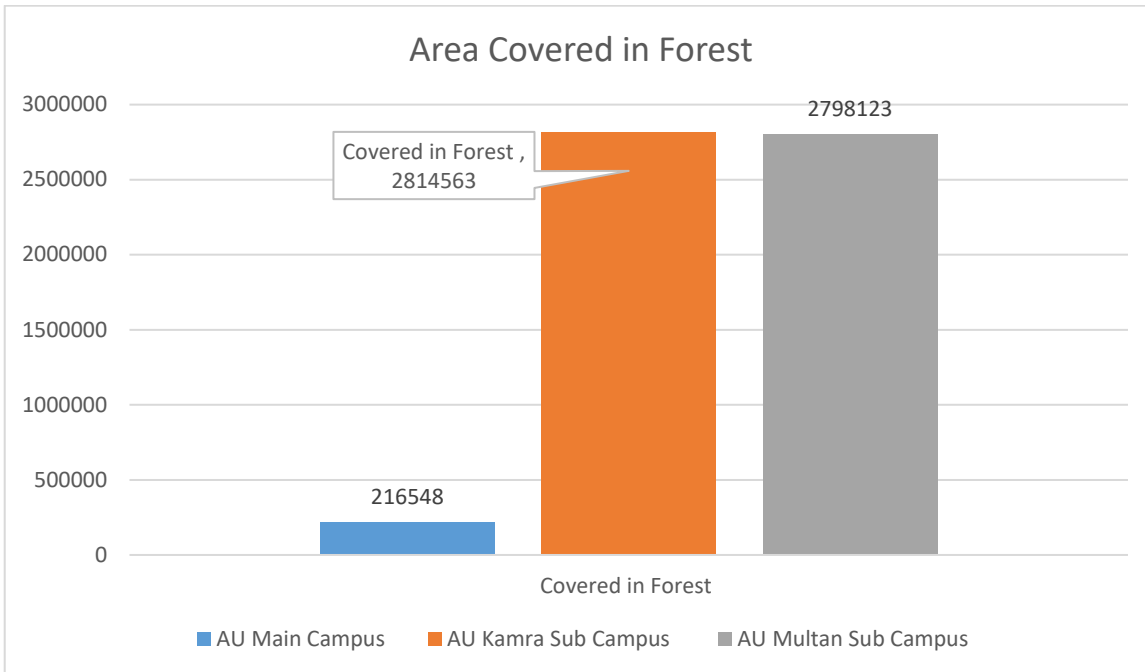
Provide personalized feedback and resources to support your ongoing learning and development in sustainability.

The assessment covers a range of topics, including but not limited to:

- Climate change
- Biodiversity conservation
- Energy efficiency and renewable energy
- Waste management and recycling
- Sustainable transportation
- Social equity and justice
- Economic sustainability

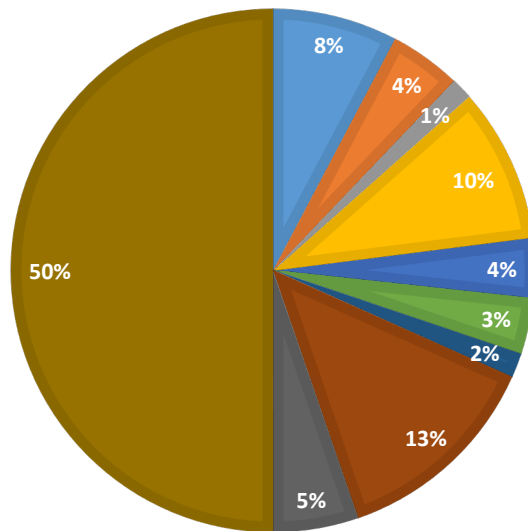
Taking the assessment is voluntary, but we encourage all members of the Air University community to participate. Your input will not only help us gauge the effectiveness of our sustainability education efforts but also provide valuable insights into how we can further enhance sustainability literacy across our institution.

Air University Covered Main Campus



AU ISLAMABAD

- CS Lawn
- Administrative Lawn
- CafeLawn
- AUSOM lawn
- Generators Lawn
- A & B Block Lawn
- Auditorium Lawn
- Green belt
- FMC Lawn
- Total Open Space Area



Tree Plantation Drive

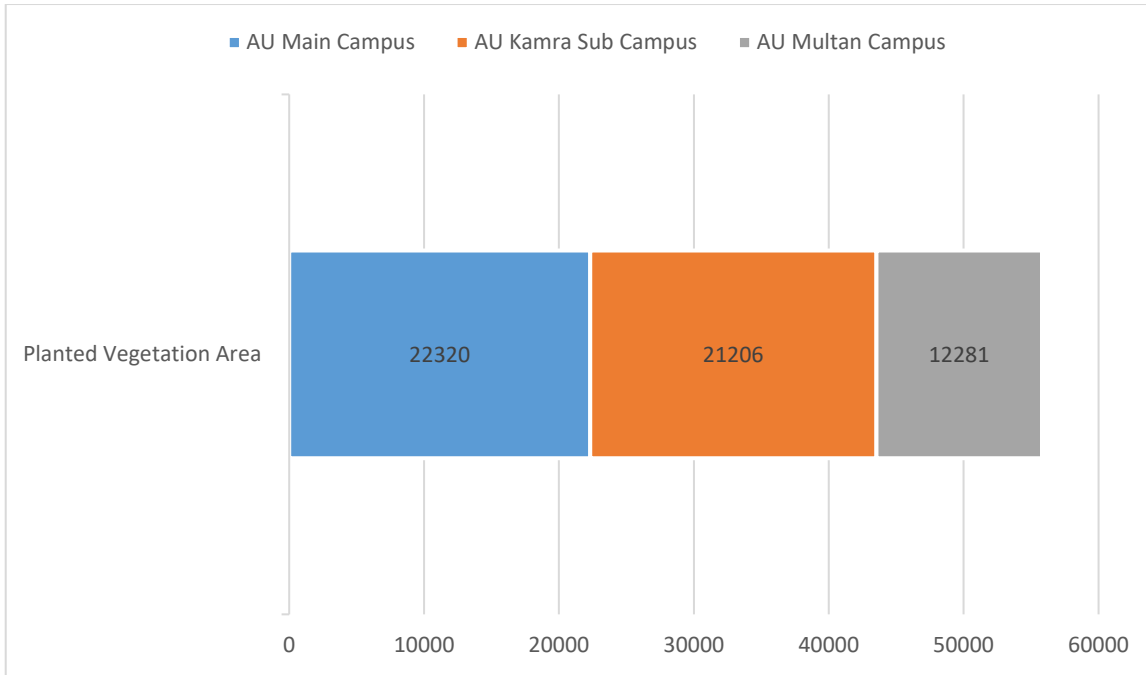
Air University Main Campus, Karma And Multan Sub Campuses Arranged Different Sessions Of Tree Plantation Drive







Air University Planted Vegetation Covered Area



Our Green Vision

We are implementing green construction standards, adopting energy-efficient technologies, maximizing water use, encouraging trash minimization and recycling, and so forth.

Curriculum Integration

Students gain a thorough awareness of environmental problems and solutions through courses on sustainable development, environmental management, and conservation principles.

Automated Smart Home Systems

Home automation is the automatic control and monitoring of household appliances and house features like doors, windows, fans, and so on. This system improves the standard of living at home, saves energy and money and it also provides support to elderly and disabled people in the home.



Solar-Powered LED Smart Lighting Systems

All buildings are well ventilated and built to support energy saving with coolant walls (thick walls). The Solar system is being installed to decrease reliance on electricity. Sky light roof covers the open area instead of concrete ceiling to ventilate and light the blocks.



LED Ceiling lights provided at Air University Campus



Energy Efficient lighting System



Air University for Smart and Sustainable Living Environment

Air University Multan Campus have smart and sustainable working environment having IT room, Server Room, Power Control Room, Automation Facility, Labs and Smart Class room as well. Recently, we working on the installation of Solar Panel to convert campus building to sustainable energy consumption. (Pictures attached)



Air University Car Pool World

We motivate the Students, faculty members, and staff to use hybrid and electric Vehicles. Rideshare is designed to encourage commuters to adopt healthy and sustainable transportation options. The service, which has won recognition from UN Environment as part of a push to promote low-carbon lifestyles, also helps cut congestion and pollution.



CarpoolWorld

Safai Walk

The Safai Walk, organized by the Air University Shoor Society, aimed to improve the cleanliness and hygiene of the campus while providing an opportunity for AU students to actively contribute to environmental conservation. The event encouraged student volunteers to participate in a concerted effort towards maintaining a clean and green campus environment.

Event Overview: Approximately 40 to 50 participants from the Air University community took part in the Safai Walk. The event was held within the university's in-campus premises, targeting areas that required cleaning and maintenance.



Air University has always taken initiatives to foster creativity among students. In connection with generating 'out-of-box' ideas, the Directorate of Admin and Development and Shoor Society proposed the idea of a Recycling Competition in Students' Week on a yearly basis. The purpose of this event is to bring students to one platform for making creative and usable products out of used materials. In the event, participants shall be given one hour time to make products from recyclable raw materials and showcase them to the event management. The winners of the events will be awarded with cash prizes.

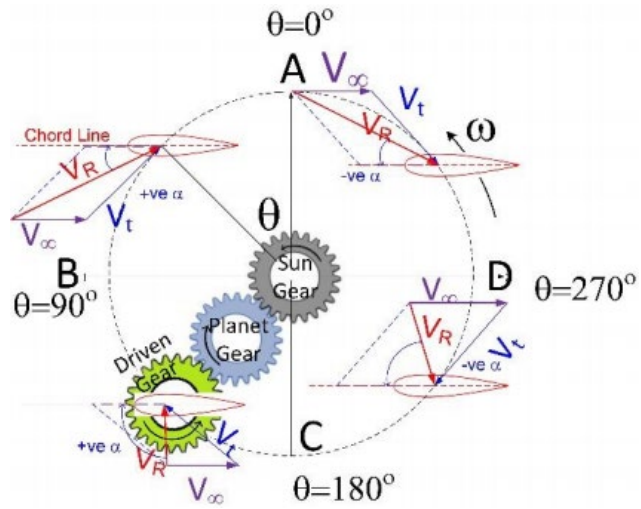


❖ The engineering student from our university worked on the project and really extracted power from the shallow streams using a hydrodynamic design and optimization of cycloidal vertical axis water turbine



Analysis of Vertical Axis Water Turbine for River Application

A student has created and constructed a vertical-axis water turbine application for rivers. The aim is to design and fabricate a vertical axis wind turbine with automated blade angle correction (alignment of the blade to maximize lift by adjustment of angle of attack) depending on fluid speed and angle of incidence.



Solar-powered Automatic Drip Irrigation System

The variation of the spatial and temporal distribution of available water for irrigation makes significant demand on water conservation techniques. Irrigation System provides a sustainable solution to enhance water use efficiency in the agricultural fields using renewable energy.

This system allows farmers to apply the right amount of water at the right time.



Work Shop on Building Water Saving

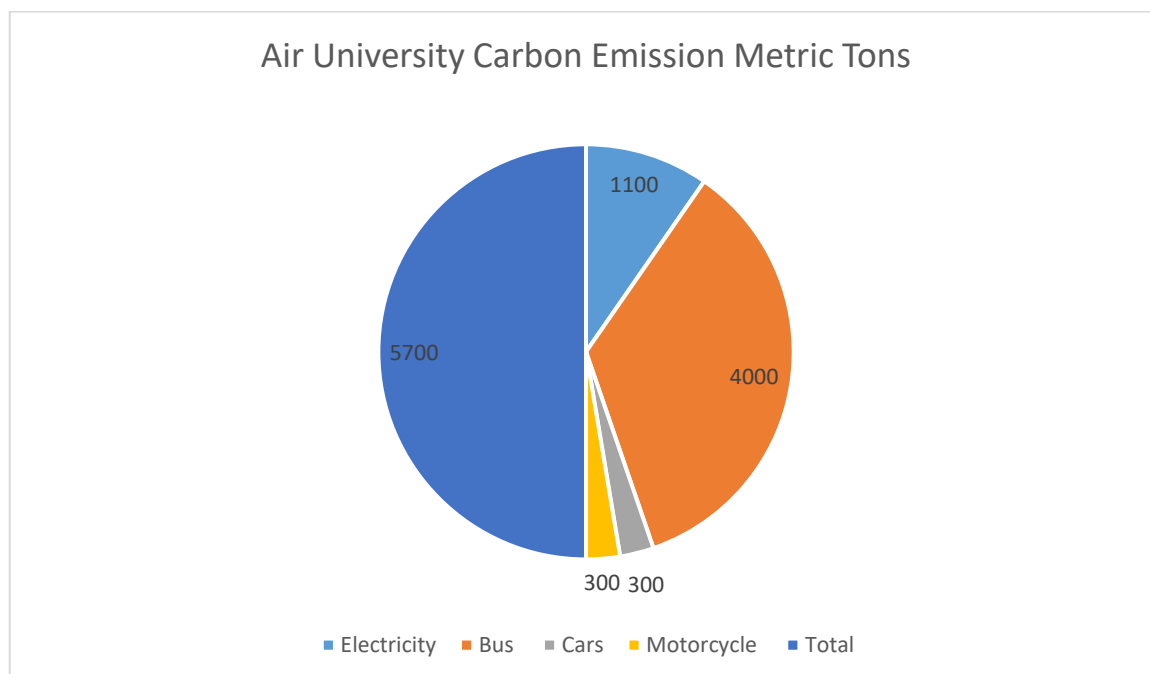
Air University Islamabad, a workshop on Building Water Saving Devices was held. The Robotics & Automation Society at Air University created the first Smart Tap prototype. The prototype was well received, and the university administration requested that it be used in the ablution area and

washrooms. Scrap materials were used to construct the body and all of the building components. Discarded dispenser bottles and damaged PVC pipes were used for the main body. This system is suited for use in underserved communities.



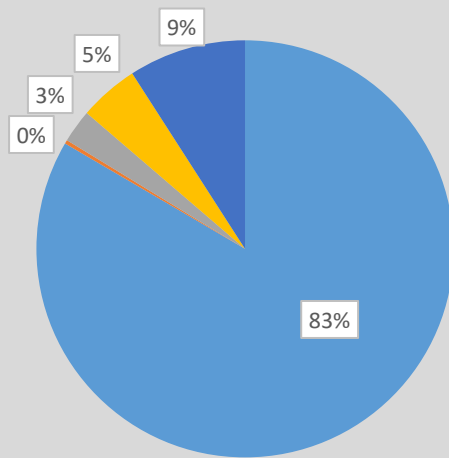
Limiting carbon emissions

The university has committed to supporting Air University's effort to achieve zero carbon emissions by 2025 within the timeframe required by national policy. It will be reduced from 4938 metric tons to the least as per the standard Carbon emission of our country.



To avoid the worst effects of warmer temperatures, extreme weather, and high carbon emission vehicles, Air University is adequately mindful of such pollution and takes appropriate measures to minimize the effects within the campus area.

Total Carbon Footprint Emission in Metric Tons



■ CO2 Electricity ■ CO2 Buses ■ CO2 Cars ■ CO2 Motorcycle ■ CO2 Total

All offices were provided an indoor plant and buildings corridors were also decorated with indoor plants to create better working environment and increase awareness of Air University employees



Sustainable Development dialogue

With the support of NUST the University of the University, Director QEC of Air University attended the SDGs dialogue session and discussed the strategic vision for effectively implementing the SDGs policies and standards in the educational sector and overcoming the challenges posed by the threats of climate change and natural disaster.

