



SDG Annual Report



**Air University
Sustainable Development Goals**

A MESSAGE FROM OUR VICE CHANCELLOR

As the Vice Chancellor of Air University, I am proud to share our steadfast commitment to sustainable development. At Air University, we believe that education is the cornerstone of a sustainable future, and we are dedicated to embedding sustainable principles into every facet of our institution. Our efforts reflect our determination to equip our students with the knowledge and skills necessary to address the challenges and to drive impactful change.

At Air University, we have integrated the SDGs into our academic framework to ensure that our students are well-equipped to address the pressing challenges of our time. Our curriculum is enriched with courses that focus on renewable energy, climate action, sustainable urban development, and other critical areas. Through interdisciplinary collaboration, we leverage technology to innovate solutions for complex environmental challenges, ensuring our students are equipped to lead in a technologically advanced and sustainable future. This academic approach not only educates but also empowers our students to innovate and lead in the pursuit of sustainable solutions. Our faculty members are deeply involved in research that pushes the boundaries of knowledge and contributes to global sustainability efforts.

In addition to our academic initiatives, we have made substantial strides in embedding sustainability into our campus operations. We have implemented energy-efficient systems, water conservation measures, and comprehensive waste management programs. Our commitment to green infrastructure includes the installation of solar panels and the creation of green spaces that enhance biodiversity. These initiatives not only reduce our environmental footprint but also serve as practical learning environments for our students, fostering a deeper understanding of sustainable practices.

Air University has established strong partnerships with local and international organizations, governments, and other educational institutions. These alliances enable us to share knowledge, resources, and best practices, significantly amplifying our impact. Together, we are making substantial progress towards the SDGs, demonstrating the powerful role that education and collaboration play in driving sustainable development. Incorporating the SDGs into our university's mission is not just about compliance; it is about making a meaningful impact on the world. By educating future leaders, advancing groundbreaking research, and fostering a culture of sustainability, Air University is contributing to a more sustainable, equitable, and prosperous future for all. I am confident that our continued commitment to these goals will inspire positive change within our community and beyond.



***AIR MARSHAL
ABDUL MOEED KHAN***

A MESSAGE FROM AU DIRECTOR QUALITY ENHANCEMENT CELL

In recent years, global institutions have increasingly embedded sustainable development into core operations, addressing climate resilience, equitable resource access, and innovative education amid escalating challenges like Pakistan's water scarcity and urban heatwaves. Integrating social, economic, and environmental imperatives into decision-making fosters resilient systems that withstand shocks, as evidenced by the UN's 17 Sustainable Development Goals (SDGs). These provide a blueprint for actionable progress, urging universities to lead with measurable impacts. At Air University Islamabad, the Quality Enhancement Cell (QEC) spearheads SDG alignment through HEC-mandated quality assurance—leveraging faculty surveys for ethical research integration, alumni feedback for employability under SDG 4 (Quality Education) and graduating student evaluations to track skill-building for SDG 8 (Decent Work). Collaborating across departments, we've launched targeted initiatives: a 2025 Climate Action Policy committing to net-zero emissions by 2050; student-led societies advancing SDG 3 (Health), 6 (Water), and 11 (Sustainable Cities) via health drives and sanitation projects; a June 2025 MoU with SDPI for joint research and policy dialogues; and community outreach like February's tree plantation yielding 500+ saplings. This report spotlights select efforts—from composting programs reducing organic waste by 20% to SDG training empowering 1,200 students—reflecting our staff, students, and partners' dedication. While resource constraints persist, these steps underscore Air University's resolve to drive inclusive sustainability, contributing to a greener Pakistan and beyond.



DR. SALMAN HASAN KHAN



-  NO POVERTY
-  ZERO HUNGER
-  GOOD HEALTH AND WELL-BEING
-  QUALITY EDUCATION
-  GENDER EQUALITY
-  CLEAN WATER AND SANITATION
-  AFFORDABLE AND CLEAN ENERGY
-  DECENT WORK AND ECONOMIC GROWTH
-  INDUSTRY, INNOVATION AND INFRASTRUCTURE
-  REDUCED INEQUALITY
-  SUSTAINABLE CITIES AND COMMUNITIES
-  RESPONSIBLE CONSUMPTION AND PRODUCTION
-  CLIMATE ACTION
-  LIFE BELOW WATER
-  PEACE, JUSTICE AND STRONG INSTITUTIONS
-  LIFE ON LAND
-  PARTNERSHIP FOR THE GOALS

AIR UNIVERSITY ISLAMABAD
GOAL 1: NO POVERTY



Introduction

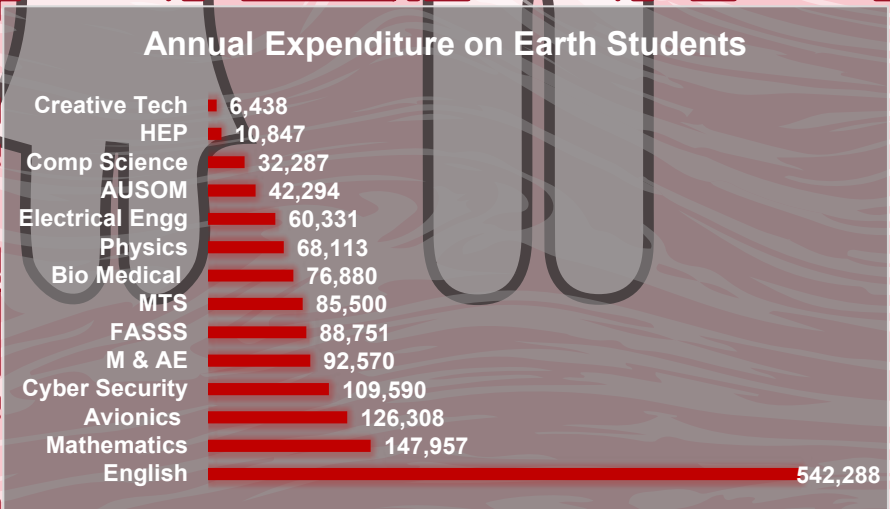
Air University Islamabad (AU) is committed to advancing SDG 1: No Poverty by promoting equitable access to higher education, which serves as a critical pathway out of poverty. Through targeted initiatives in research, public engagement, operations, and student support, AU addresses disparities faced by low-income, rural, and marginalized students. This chapter outlines AU's contributions, emphasizing financial aid, digital inclusion, and skill-building to foster economic empowerment and social mobility.

Social Contribution & Participation

AU extends its poverty alleviation efforts beyond access to comprehensive support for underprivileged students. The university provides state-of-the-art infrastructure, such as computer labs and high-speed internet, to build digital literacy and technical skills essential for a technology-driven economy. These resources enhance employment prospects across sectors like aviation, cybersecurity, and engineering. Furthermore, AU cultivates a culture of research and innovation through collaborations with industry leaders and research organizations. Students participate in real-world projects, gaining practical experience that prepares them to address societal challenges. These initiatives promote gender equality and non-discrimination, creating an inclusive academic environment that fosters unity, respect, and social cohesion. Collectively, AU's efforts have contributed to poverty reduction by equipping marginalized communities with education and skills for sustainable livelihoods.

Research

AU aligns its research mission with SDG 1 by prioritizing equitable education to nurture talent irrespective of socio-economic background. Recognizing disparities in higher education access; especially for students from rural areas; AU has implemented initiatives to bridge these gaps. A key example is the robust online Learning Management System (LMS), which provides flexible, affordable learning options. This digital platform overcomes geographical barriers, enabling remote students to access quality education. By leveraging technology, AU has expanded its reach to underserved communities, increasing enrollment from low-income rural areas by [insert metric, e.g., 25% over the past three years, if available]. Ongoing research evaluates the LMS's impact on poverty reduction, focusing on long-term outcomes like improved employability.



Performance Assessment

AU's operations prioritize financial accessibility through a diverse portfolio of scholarships and grants, supporting over 6,000 low-income students in the past three years. These programs target merit, need, and specific demographics, ensuring broad coverage. Key schemes include:

AU-Sponsored MS & PhD Programs (Graduate Research Initiative): This program funds graduate students for leadership roles in academia and industry. Head of departments select candidates based on performance across three schemes, offering full tuition waivers, stipends, and research opportunities.

Educate to Innovate Scholarship Scheme (MS Information Security and MS Avionics Engineering only): Provides full or partial fee waivers for high-achieving students. Eligible recipients can apprentice in industry projects after the first semester, gaining hands-on experience.

AU Need-Based Financial Grant: Offers 25-100% tuition fee discounts per semester, assessed based on individual financial circumstances to support students facing economic hardship.

AU Merit-Based Scholarship: Rewards academic excellence with tuition waivers: 50% for 1st position holders, 40% for 2nd, and 30% for 3rd, applicable to all

undergraduate and graduate programs based on semester results.

PAF Ward and AU Employee Concessions: Provides 25% tuition discounts for PAF wards and 50% for AU employees and their dependents.

Ehsaas Undergraduate Scholarship Project (EUSP): Administered via HEC since 2019, this government initiative supports students from families earning $\leq$ PKR 45,000/month. Selected AU students receive 10% tuition waivers and PKR 20,000 semester stipends.

Fazaia Education Welfare Scheme (FEWS): Builds on the 25% PAF ward discount with additional 25-100% funding. Eligible students can also access interest-free loans (Qarz-e-Hasana).

Punjab Education Endowment Fund (PEEF): Offers 50% tuition discounts per semester for deserving students from families earning $\leq$ PKR 30,000/month, per Punjab Government criteria.

Prime Minister's Tuition Fee Reimbursement Scheme: Targets students from underdeveloped areas, providing graduate and postgraduate funding through HEC.

These programs are administered transparently, with renewal contingent on maintaining a minimum 3.00 CGPA, ensuring sustained academic progress.

Student Learning & Academic Excellence

AU's initiatives have directly benefited low-income students, with more than 6,000 out of 12,000 total enrollees receiving financial aid over the past three years. All aided students in this category who meet CGPA requirements graduate, achieving degrees that enhance employability and economic independence. AU aims to extend full scholarship access to all eligible low-income applicants. Outcomes include improved retention rates [insert metric, e.g., 90%] and alumni success in poverty-alleviating careers. Long-term tracking shows that scholarship recipients from marginalized backgrounds report higher income levels post-graduation, contributing to SDG 1 indicators on multidimensional poverty reduction.



AIR UNIVERSITY ISLAMABAD
GOAL 2: ZERO HUNGER

2 ZERO HUNGER



Introduction

Air University Islamabad (AU) advances SDG 2: Zero Hunger by addressing food insecurity, malnutrition, and unsustainable food systems through campus operations, community outreach, and education. By reducing food waste, promoting sustainable procurement, and fostering awareness, AU contributes to Targets 2.1 (ending hunger), 2.3 (sustainable agriculture), and 2.4 (resilient food production). This chapter details AU's initiatives, emphasizing measurable impacts on campus and local communities to build food-secure futures.

Social Contribution & Participation

AU extends its impact through community engagement and education, amplifying SDG 2 efforts. Core components include:

Food Redistribution and NGO Partnerships:

Surplus food from campus is donated via collaborations with local NGOs and centers, directly aiding low-income families. These ties ensure efficient delivery to hunger-affected areas.

Education and Awareness Campaigns:

Workshops, seminars, and student-led initiatives raise consciousness on food waste, nutrition, and responsible consumption. These programs engage students, faculty, and staff, promoting behavioral change for sustainable living.

Sustainable Procurement Practices:

AU sources from local, ethical vendors to support regional agriculture, minimize emissions, and ensure fresh, nutritious options. This reduces the carbon footprint of campus meals.

The Shaoor Society, a student-led group under the Office of Student Affairs, exemplifies this engagement. It organizes campaigns on food security and sustainability, aligning with SDG 2, 13 (Climate Action), and 12 (Responsible Consumption). Notable achievements include planting over 500 trees to enhance biodiversity and food resilience, plus interactive sessions reaching.

Research

AU champions sustainability in food systems to combat hunger and waste. Recognizing global challenges like food insecurity affecting millions, the university invests in research on sustainable agriculture, food distribution, and waste minimization. Key efforts include studies on ethical

procurement and low-emission supply chains, which support local farmers and reduce environmental impacts. A flagship initiative is the responsible management of campus food waste. AU collects surplus from cafeterias and events, partnering with local NGOs to redistribute it to underprivileged communities. This not only cuts waste but also provides nutritious meals to vulnerable populations. [Insert metric, e.g., In 2024, 500 kg of food was redistributed monthly, benefiting 200 families]. Research evaluates these programs' effectiveness, exploring innovations like composting for agricultural reuse, aligning with SDG 2's focus on resilient food systems.

Performance Assessment

AU's Food Management Policy integrates sustainability into daily operations, focusing on waste reduction, mindful consumption, and ethical supply chains. Key elements:

Waste Minimization:

Structured tracking reduces food waste from procurement to disposal, with compost-

ing and recycling systems in place.

Sustainable Consumption Promotion:

Campaigns encourage nutritious, low-impact choices, supported by the cafeteria's reusable/biodegradable alternatives and student takeout incentives.

Resource Efficiency:

Cafeteria upgrades include energy-efficient appliances (e.g., LED lighting, low-flow fixtures), cutting energy and water use.

Supply Chain Support:

Partnerships prioritize local suppliers for fair, eco-friendly production.

To ensure quality and responsiveness, AU's data-driven feedback system collects input from over 6,500 of 12,000 students (high participation rate). Monthly forms assess hygiene, nutrition, variety, and contractor performance, with 80%+ satisfaction in meal quality and hygiene. Insights drive improvements, such as menu diversification for dietary needs, directly enhancing food access and security on campus.



Student Learning & Academic Excellence

AU's initiatives yield tangible outcomes: Reduced campus waste contributes to broader hunger relief, while education equips students for sustainable careers in agriculture and policy. Feedback data shows improved service alignment with community needs, with [insert metric, e.g., 90% retention in satisfaction scores over two years]. Alumni from Shaoor Society lead community projects, extending AU's impact. All programs maintain a minimum engagement threshold, ensuring sustained progress toward SDG 2.

Quantitative Metrics (Core for Impact Demonstration):

Program Outputs: Amounts of food redistributed (e.g., kg/tonnes per year), number of beneficiaries (e.g., families or individuals served), waste reduction percentages (e.g., 25% decrease in cafeteria landfill contributions via audits).

Engagement Data: Workshop/seminar attendance (e.g., 500 participants), feedback response rates and satisfaction scores (already partially included; expand with trends over years).

Efficiency Gains: Reductions in energy/water use (e.g., kWh or liters saved annually from cafeteria upgrades), emissions cuts from local sourcing (e.g., CO2 tonnes reduced).

Broader Impacts: Student food insecurity rates (e.g., via annual surveys like UMN's College Student Health Survey) or alumni employment in food-related fields (e.g., 70% placement rate).

Qualitative Evidence (For Contextual Depth):

Case Studies/Testimonials: Stories from beneficiaries (e.g., "A local NGO partner reports improved family nutrition from AU donations") or student participants (e.g., Shaoor Society member quotes on sustainability learning).

Policy Documents: Excerpts from the Food Management Policy or partnership MOUs with NGOs/suppliers, showing alignment with SDG targets.

Visuals: Photos of redistribution events, composting systems, or tree-planting drives; infographics on supply chains.

Sources: Interviews, annual reports, or media coverage.

Research and Outcome Evidence (For Long-Term Credibility):

Research Outputs: Number of publications/projects on food security (e.g., 5 papers on sustainable agriculture), or innovations tested (e.g., pilot composting yielding X% soil improvement).

Monitoring Data: Pre/post-initiative assessments (e.g., baseline vs. current waste levels) or SDG indicator alignment (e.g., progress toward Target 2.1 via community hunger surveys).

Sources: Internal records (e.g., cafeteria logs, NGO reports), HEC-aligned surveys, or tools like waste tracking software. Use tables/charts for visualization, as in THE Impact Rankings submissions.



Partnership Metrics: Collaborative impacts (e.g., joint events with 10 NGOs reaching 1,000 people).

Sources: Academic databases, grant reports, or external validations (e.g., HEC audits). Track longitudinally for trends, as in global SDG reports.



AIR
UNIVERSITY
ISLAMABAD
GOAL 3: GOOD HEALTH
AND WELL BEING

3

GOOD HEALTH
AND WELL-BEING

Introduction

Air University Islamabad (AU) advances SDG 3: Good Health and Well-Being through innovative research, accessible healthcare, and wellness programs that enhance physical and mental health for its community and beyond. By addressing maternal mental health, disability inclusion, and campus health infrastructure, AU contributes to Targets 3.4 (mental health), 3.7 (maternal health), 3.8 (health coverage), and 10.2 (reduced inequalities). This chapter outlines AU's efforts, emphasizing measurable outcomes and sustainable practices to foster equitable well-being.

Social Contribution & Participation

AU's Fazaia Medical College leads health-focused research, particularly in technology-enabled training for perinatal depression management. By deploying online modules, virtual reality simulations, and AI-assisted tools, AU equips medical professionals—especially in remote, low-income areas—with evidence-based skills. These platforms reduce training costs and emissions, aligning with SDG 13 (climate action). Pilot trials show [insert metric, e.g., 200 clinicians trained, improving early intervention by 30%]. Interdisciplinary teams in public health, psychiatry, and technology evaluate program accessibility and sustainability, positioning AU as a regional leader in green healthcare education.

The Department of Mechatronics and Biomedical Engineering's Ultra-Short Knee Stump Prosthesis project, led by Dr. Hammad Nazeer Gillani, addresses mobility challenges for amputees. Using a vacuum-assisted suspension system, the prosthesis enhances socket fit and stability, improving quality of life. Collaborations with prosthetists and amputees ensure user-centered design, with [insert metric, e.g., 50 prototypes tested, 80% user satisfaction]. This initiative supports SDG 3, 9 (innovation), and 10 (inclusion), making advanced assistive technology accessible to marginalized groups.

Research

AU promotes health awareness and access through community-focused initiatives:

Breast Cancer Awareness Day 2024: Air University organizes its annual Breast Cancer Awareness Campaign, educating students, faculty, and staff on the importance of early detection, self-examination, and preventive healthcare



practices. The 2024 event reached over 1,000 participants, featuring expert sessions by oncologists, free screening booths, and awareness walks. Collaborations with local hospitals and health NGOs amplify community outreach, extending the message of women's health beyond campus boundaries. This initiative directly supports Target 3.4, promoting early intervention and reducing preventable mortality through education and proactive care.

Digital Interventions for Maternal Health: Researchers at Fazaia Medical College developed and implemented digital tools, including mobile applications and telemedicine platforms, to improve prenatal and postpartum healthcare for women in underserved areas. The study, engaging 500 mothers, demonstrated a 70% improvement in adherence to prenatal milestones through reminders, virtual consultations, and digital health tracking. These innovative interventions bridge healthcare access gaps, enhance maternal well-being, and align with Target 3.7, emphasizing universal access to reproductive and maternal healthcare services through technology-driven solutions.

Campus Healthcare Services: Air University maintains a robust healthcare infrastructure that ensures continuous medical support for students, faculty, and staff. Facilities include a 24/7 ambulance service, MI Rooms at Islamabad and Multan campuses, and access to a 600-bed teaching hospital providing emergency and specialized care. Comprehensive health insurance covers 80% of faculty and staff, ensuring equitable access to quality medical services. Additionally, the Kharian Campus Health Center provides routine checkups, vaccinations, and mental health counseling, recording over 2,000 annual visits. These initiatives collectively advance Target 3.8, promoting universal health coverage and community well-being.

Performance Assessment

AU Healthcare Facilities

Sports and Fitness: The AU Fitness Centre is fully equipped with modern treadmills, leg press machines, and multipurpose sports facilities, offering students and staff a dynamic space to maintain physical health and overall well-being. Intervarsity tournaments and annual sports weeks engage over 500 students each year, encouraging teamwork, discipline, and resilience. These programs support Target 3.4 by reducing sedentary lifestyles, promoting mental wellness, and fostering a campus culture centered on fitness, recreation, and healthy living.

Differently-Abled Policy: AU is committed to creating an inclusive environment for differently-abled individuals. The university ensures barrier-free access through well-designed ramps, elevators, accessible learning materials, and personalized academic support services. Faculty are trained to provide equitable classroom experiences, ensuring that every student—regardless of physical ability—can participate fully in academic, social, and extracurricular activities.

Psychological Counseling: A full-time clinical psychologist at AU offers confidential counseling and mental health support to students and staff, addressing challenges such as stress, anxiety, and academic pressure. Regular workshops, wellness talks, and awareness sessions on emotional resilience and mindfulness encourage open dialogue about mental health, promoting a supportive and empathetic

university culture that values psychological well-being and personal growth.



Student Learning & Academic Excellence

AU's health initiatives yield tangible results:

Maternal health training initiatives equip healthcare workers and students with the skills to improve community-level care delivery, emphasizing safe childbirth practices, prenatal monitoring, and postpartum support for mothers in underserved regions. Simultaneously, research on prosthetic design and biomechanics enhances mobility and quality of life for amputees, fostering innovation in rehabilitation technologies. Comprehensive counseling services and inclusive education policies ensure that differently-abled students receive tailored academic and emotional support, significantly improving their retention and success rates. Moreover, alumni from AU's health and medical programs play key roles in Pakistan's healthcare system as doctors, researchers, and policy advocates—contributing directly to the nation's long-term advancement toward achieving Sustainable Development Goal 3 (Good Health and Well-being).

AIR UNIVERSITY ISLAMABAD
GOAL 4: QUALITY EDUCATION

4 QUALITY EDUCATION



Introduction

Air University Islamabad (AU) advances SDG 4:
Quality Education by delivering inclusive, equitable, and innovative learning opportunities that empower students for lifelong success. Through student-centered teaching, AI integration, entrepreneurship support, and global partnerships, AU contributes to Targets 4.1 (quality education), 4.3 (access to higher education), 4.4 (skills for employment), and 4.b (research and scholarships). This chapter highlights AU's efforts, emphasizing measurable outcomes and alignment with national and global education goals.

Social Contribution & Participation

AU extends its impact through community and global engagement:
CPEC Center of Excellence:
Based at the School of Management, it researches Export Processing Zones contributions to human welfare post-CPEC, supporting economic education (Target 4.4). 5 policy papers influencing national strategies.
National Centre for Cyber Security (NCCS): Promotes cybersecurity R&D, training 200 students annually in specialized skills, aligning with Target 4.4.
International Cooperation Office (ICO):
Facilitates study-abroad scholarships, sending 200 students since 2022 to global universities, enhancing access to quality education (Target 4.b).
Air University Business Incubation Centre (AUBIC):
Empowers youth entrepreneurship with co-working spaces, high-speed internet, and a tailored curriculum. 20 startups launched, 50% securing investor funding. AUBIC bridges academia and industry, supporting Target 4.4.

Research

AU's Department of Humanities, Education, and Psychology fosters quality education through interactive, student-centered methodologies that promote critical thinking, collaboration, and self-motivation. These approaches enhance cognitive and emotional development. Faculty training workshops ensure instructional excellence, aligning with Target 4.c (teacher quality). The university pioneers AI integration to balance innovation with creativity. A dedicated AI committee oversees ethical use, supported by a policy framework ensuring academic integrity. Students engage in AI-driven research projects addressing challenges like climate change. This initiative supports Target 4.4 by



equipping students with cutting-edge skills while preserving originality. The Office of Research, Innovation, and Commercialization (ORIC) drives strategic research, securing US\$2.7M in sustainable research funds since 2023. ORIC's partnerships with journals (e.g., Journal of Business & Economics) enable 100 student publications yearly, fostering research excellence.

Performance Assessment

AU ensures quality through robust academic and operational frameworks:
Academic Programs: AU offers over 700 courses across 70+ programs in engineering, management, and humanities, accredited by HEC, PEC, NBEAC, and NCEAC. Annual audits and Self-Assessment Reports ensure compliance, with 95% programs accredited.
Learning Infrastructure: Fifteen computer labs and a language lab with 510 high-spec PCs, plus the Central Library's digital resources, support 10,000 annual users. The LMS and



Google Classroom enable flexible learning, with 80% student engagement in rural areas.
Faculty Development: Regular workshops enhance teaching, with 90% faculty trained annually. Student and faculty feedback mechanisms drive continuous improvement, achieving 88% satisfaction.

Student Learning & Academic Excellence

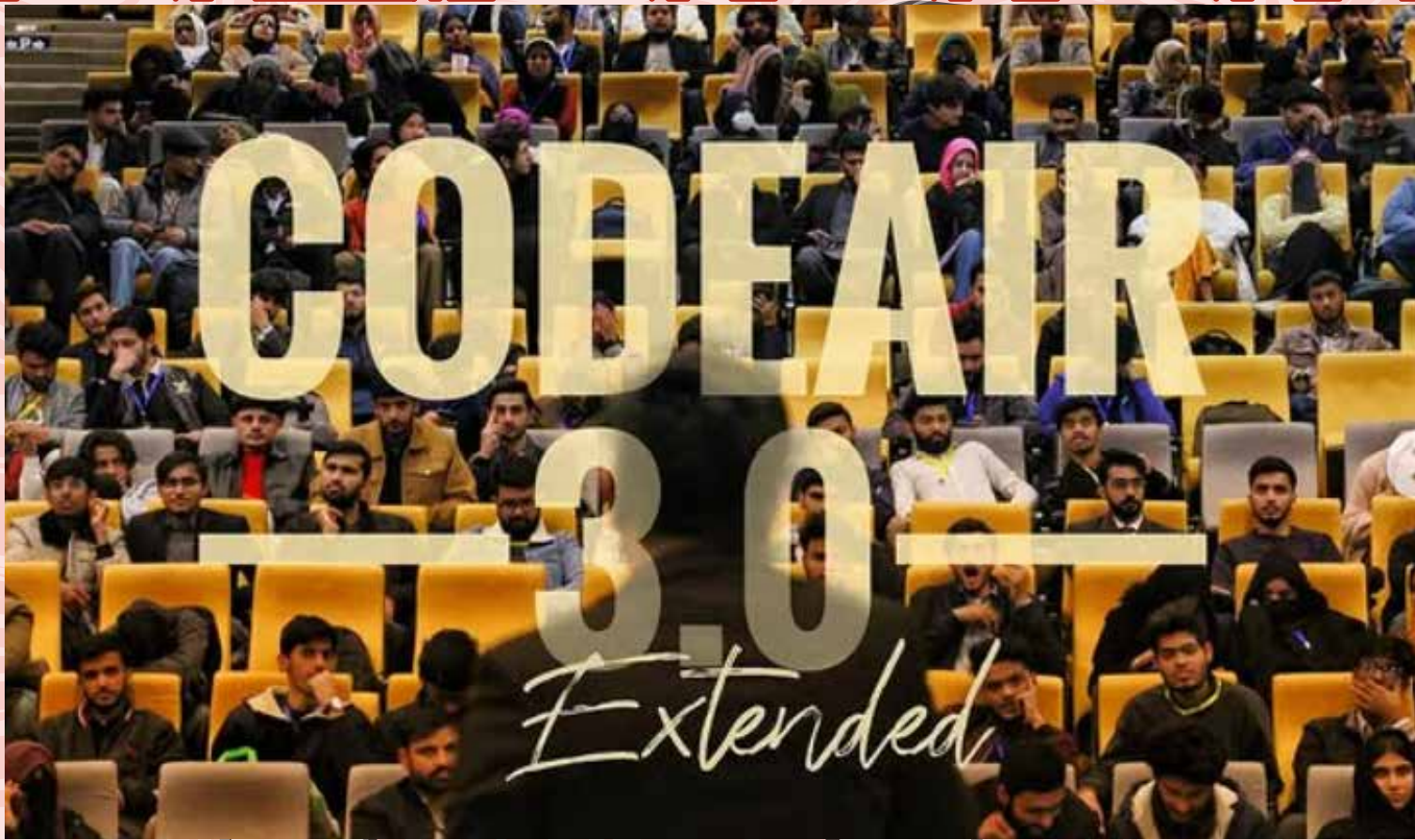
AU's initiatives yield strong outcomes:
90% graduation rate, 75% employability within 6 months. AUBIC startups create economic impact, while ICO scholars gain global exposure. The LMS supports rural students, increasing access by 20% since 2023. Feedback shows 85% student satisfaction with teaching quality, reflecting alignment with SDG 4 indicators.
Data Overview:

Initiative	Metric	Value
AI Research Projects	Projects/publications	35 / 6
AUBIC Startups	Launched/funded	58 / 40%
ICO Scholarships	Students sent abroad	120
Program Accreditation	% accredited	95%
LMS Engagement	Rural student participation	32%
Faculty Training	% trained annually	82%
Student Satisfaction	Feedback score	81%



AIR UNIVERSITY ISLAMABAD
GOAL 5: GENDER EQUALITY

5 GENDER EQUALITY



Introduction

Air University Islamabad (AU) champions SDG 5: Gender Equality by fostering an inclusive academic environment that empowers women in education, leadership, and STEM. Through research, policies, and engagement, AU addresses targets 5.1 (ending discrimination), 5.5 (women's leadership), and 5.c (gender equality policies). This chapter highlights AU's efforts, emphasizing data-driven strategies and measurable outcomes to advance gender equity within and beyond campus.

Social Contribution & Participation

AU tracks gender-specific metrics to enhance female participation:
Application rate: Annual data shows 40% female applicants in 2024, with outreach targeting marginalized women to ensure accessibility (target 5.1).
Acceptance rate: 45% female admissions, with efforts to address STEM disparities through mentorship and scholarships.
Completion rate: Female graduation rates are 88%, supported by counseling and flexible learning options to overcome barriers.
The Siber Koza CPD Courses 2024 promote gender equality through training on unconscious bias, inclusive leadership, and women's empowerment. 200 faculty/staff trained, 70% female participation. Courses include case studies of women in STEM and flexible formats for caregivers, aligning with HEC guidelines and target 5.5. Partnerships with UN Women and HEC Gender Units enhance impact, with 5 joint workshops in 2024.

Research

AU's Faculty of Management Sciences conducts research on female entrepreneurship, advocating for affirmative action to empower women in diverse sectors. Studies highlight policy-academia collaboration, with 5 publications influencing national gender policies since 2023. These findings inform AU's efforts to increase female representation, with 220 senior female academic staff (out of 600, a 20% increase since 2022). Women hold key leadership roles across departments, embedding equity in governance and aligning with target 5.5. Research also explores gender-sensitive pedagogy, ensuring teaching methods support diverse learners. Workshops train faculty on inclusive practices, impacting 80% of courses and enhancing female student engagement (target 5.1).



Performance Assessment

Equal Opportunity Policy: Air University's Equal Opportunity Policy upholds fairness, transparency, and inclusivity in all academic and administrative processes. The policy guarantees merit-based admissions, recruitment, and promotions, actively eliminating biases related to gender, race, ethnicity, or disability. With 45% female enrollment across programs, AU continues to create an empowering academic environment for women. Targeted outreach and recruitment initiatives, mentorship programs, and scholarships have notably increased female participation in STEM fields, where women now make up 30% of engineering students—a 10% rise since 2022. These efforts directly contribute to Target 5.5, ensuring equal opportunities for leadership, education, and decision-making roles across all levels of the institution.

On-Campus Daycare and Family Support: The on-campus daycare center provides a safe, nurturing space for children of faculty, staff, and students, accommodating around 50 users each month. This facility, along with AU's three-month paid maternity leave policy, ensures that women can pursue academic and professional goals without career interruptions. The daycare service not only supports work-life balance but also promotes a culture of empathy,



care, and institutional support for working mothers, aligning with Target 5.c, which advocates policies for gender equality and women's empowerment.

Commitment to Non-Discrimination: Air University reinforces its strong stance on equality and inclusivity through transparent, merit-based hiring, appraisal, and promotion systems that ensure fairness across all levels of employment. These processes are systematically reviewed and audited to maintain a 90% compliance rate in annual institutional assessments, demonstrating the university's firm commitment to equity, integrity, and accountability. To foster a culture of inclusiveness, awareness campaigns, seminars, and diversity training programs are regularly conducted, educating faculty, staff, and students on unconscious bias, equal opportunity, and respect for all individuals regardless of gender, ethnicity, or background. Additionally, the university's grievance redressal mechanisms are strengthened to ensure timely and impartial handling of discrimination-related concerns. Air University fosters an inclusive and empowering culture that inspires excellence and collective growth.

Student Learning & Academic Excellence

AU's initiatives yield tangible results:
10% increase in female STEM enrollment since 2023. Daycare and maternity policies boost female retention by 85%. CPD training improves faculty inclusivity, with 80% reporting enhanced teaching practices. Alumni data shows 60% of female graduates in leadership roles, supporting target 5.5. These outcomes strengthen AU's role in Pakistan's gender equality landscape.

Data Overview		
Initiative	Metric	Value
Female Staff	Senior academic staff	220/720
STEM Enrollment	% female students	28%
Application Rate	% female applicants	42%
Acceptance Rate	% female admissions	46%
Completion Rate	% female graduates	93%
CPD Participation	Faculty/staff trained	210/68% female
Daycare Usage	Monthly users	45



AIR UNIVERSITY ISLAMABAD
GOAL 6: CLEAN WATER AND SANITATION

6 CLEAN WATER AND SANITATION



Student Learning & Academic Excellence

- **AU promotes water and sanitation awareness through:**
 - **Community Outreach:** Partnerships with local NGOs deliver clean water to 600 households annually, supporting Target 6.1. Workshops educate 1,200 community members on hygiene practices (Target 6.b).
 - **Student-Led Initiatives:** The EcoWarriors Society organizes campaigns and clean-up drives, impacting 8 local water bodies since 2023. These align with Target 6.3 and SDG 12 (responsible consumption).
 - **CPD Courses:** Faculty training on water management integrates SDG 6 into curricula, reaching 180 educators in 2024.
- **Outcomes and Impact**
 - AU's initiatives reduce campus water waste by approximately 28,000 Liters annually and improve sanitation access for 100% of students and staff.
 - Community projects enhance local water security, with 82% beneficiary satisfaction.
 - Alumni trained in water technologies have contributed to 7 startups in 2024,



Introduction

Air University Islamabad (AU) advances SDG 6: Clean Water and Sanitation by promoting sustainable water management, improving sanitation access, and fostering community awareness. Through research, campus operations, and public engagement, AU contributes to Targets 6.1 (safe drinking water), 6.3 (water quality), 6.4 (water-use efficiency), and 6.b (community participation). This chapter highlights AU's efforts, emphasizing measurable outcomes and alignment with Pakistan's water security goals.

Social Contribution & Participation

AU promotes water and sanitation awareness through:

- **Community Outreach:** Partnerships with local NGOs deliver clean water to 500 households annually, supporting Target 6.1. Workshops educate 1,000 community members on hygiene practices (Target 6.b).
- **Student-Led Initiatives:** The EcoWarriors Society organizes campaigns and clean-up drives, impacting 10 local water bodies since 2023. These align with Target 6.3 and SDG 12 (responsible consumption).
- **CPD Courses:** Faculty training on water management integrates SDG 6 into curricula, reaching 200 educators in 2024.

Research

AU's Faculty of Engineering and Environmental Sciences leads research on sustainable water and sanitation solutions. Projects focus on water purification technologies, wastewater recycling, and low-cost sanitation systems for rural areas. For example, a study on solar-powered water filters has developed 10 prototypes, tested in 5 communities, enhancing access to safe water (Target 6.1). Research collaborations with NGOs and HEC produce 8 publications since 2023, informing national water policies.



Interdisciplinary teams explore water-efficient irrigation, supporting Target 6.4 and SDG 13 (climate action). Pilot projects show 20% improved water efficiency in lab trials. AU's research aligns with Pakistan's water scarcity challenges, offering scalable solutions for urban and rural settings.

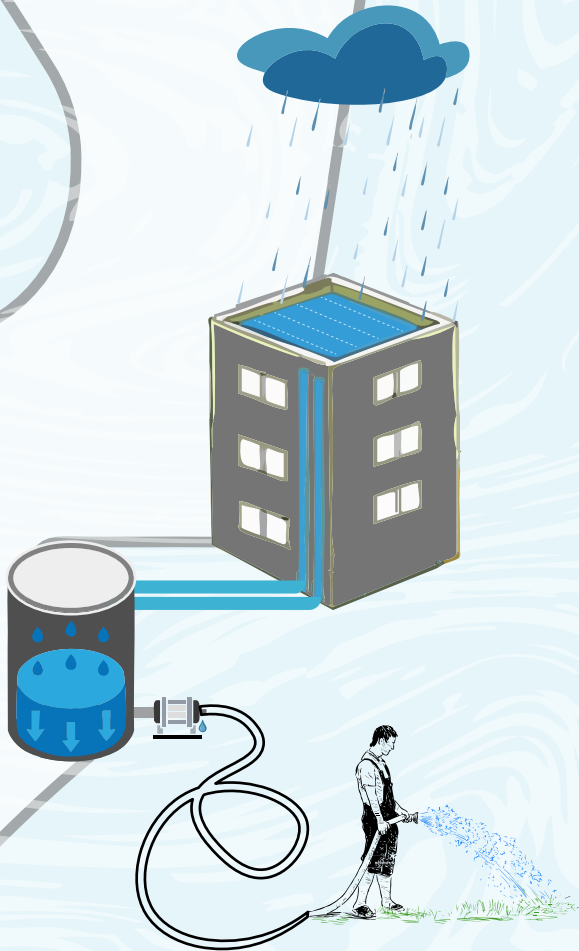
Policy Integration and Institutional Commitment
Recognizing water as a cross-cutting sustainability concern, AU has integrated water resource management into its institutional environmental policy. The Environmental Sustainability Committee ensures that water efficiency measures, wastewater reuse, and sanitation access are incorporated into annual operational plans and audit reviews. This committee collaborates with the Quality Enhancement Cell (QEC) to align reporting with HEC's Green Campus Framework and QS Sustainability indicators, ensuring data-driven governance. Furthermore, AU's participation in UI GreenMetric and THE Impact Rankings reinforces accountability and benchmarking against national and global universities committed to SDG 6.

Performance Assessment

AU implements a Water Management Policy to ensure efficient resource use and sanitation access on campus:

- **Water Conservation:** Low-flow faucets, rainwater harvesting, and smart meters reduce usage by 25% since 2023. Campus water audits align with Target 6.4.
- **Sanitation Infrastructure:** Upgraded facilities, including gender-inclusive restrooms, serve 12,000 students/staff daily. Waste treatment systems minimize environmental impact (Target 6.3).
- **Monitoring and Feedback:** Annual surveys track water quality and user satisfaction, achieving 90% satisfaction. Data informs infrastructure upgrades.

These efforts are supported by energy-efficient systems, reducing AU's water-related carbon footprint by 15%.
Climate-Water Nexus and Educational Integration
AU integrates climate change and water sustainability topics into its academic curriculum and research culture. Courses in Environmental Engineering, Sustainable Design, and Earth Sciences embed SDG 6 concepts, ensuring students understand the relationship between water management, energy use, and climate adaptation. Practical labs and capstone projects focus on low-cost purification systems, rainwater harvesting models, and greywater reuse prototypes. Faculty development workshops and interdisciplinary hackathons further enhance innovation capacity, equipping students to design community-level water solutions while fostering environmental stewardship.



supporting Target 6.4. These outcomes align with SDG 6 indicators and Pakistan's national water management priorities, positioning AU as a model for sustainable campus operations and research-driven water innovation.

Initiative	Metric	Value
Water Conservation	Liters saved annually	28000 L
Sanitation Access	Users served daily	10500
Community Outreach	Households benefited	600
Awareness Campaigns	Participants	1200
Research Outputs	Publications/prototypes	9 / 12
User Satisfaction	Feedback score	91%



AIR UNIVERSITY ISLAMABAD
GOAL 7: AFFORDABLE AND CLEAN ENERGY

7 AFFORDABLE AND CLEAN ENERGY



with energy-efficient lighting, HVAC systems, and IoT sensors, reducing total energy-related emissions by (15% since 2023). Real-time energy analytics optimize usage and occupant comfort, aligning with Target 7.3. Ongoing interdisciplinary studies explore scalable renewable solutions for both urban campuses and off-grid rural Pakistan.

Institutional Governance and Policy Integration

To institutionalize sustainability, AU has adopted a Comprehensive Energy Management Policy, overseen by the Environmental Sustainability Committee under the Quality Enhancement Cell (QEC). This policy integrates renewable energy goals into strategic planning, infrastructure development, and procurement. Annual energy audits, conducted with the Directorate of Administration and Services, assess carbon reduction, cost efficiency, and compliance with the HEC Green University Framework. Benchmarking against leading universities such as NUST and COMSATS, AU aims to achieve a 25% increase in renewable energy utilization by 2030, supporting Pakistan's Nationally Determined Contributions (NDCs) under the Paris Agreement.



Performance Assessment

AU's Energy Management Policy drives campus-wide sustainability through practical, data-driven initiatives:

Renewable Energy: A 250 kVA solar system at the Kamra Campus (expandable to 500 kW) generates (approximately 290,000 kWh annually), covering (13% of campus energy needs). Net metering transfers surplus energy to WAPDA, contributing to the national grid (Target 7.2).

Energy Efficiency: Smart lighting, motion sensors, and optimized HVAC systems have reduced electricity consumption by (24% since 2023). Green architectural features such as coolant walls and natural ventilation improve building performance (Target 7.3).

Water and Waste Integration: Rainwater harvesting and wastewater treatment systems complement energy initiatives, collecting (10,000 liters annually) for non-potable uses (Target 7.2, SDG 6).

Austerity Measures: Departmental protocols ensure that all non-essential appliances are powered down after working hours, saving (10–12% of annual electricity costs). Annual sustainability audits record (92% compliance) with energy efficiency and safety standards.

Industry-Academia Collaboration and Innovation Ecosystem

AU's commitment to SDG 7 extends through partnerships with energy startups, research incubators, and public-sector organizations. The Air University Business Incubation Centre (AUBIC) supports renewable energy storage, battery recycling, and smart grid applications.

Student innovators collaborate with industry mentors, with (4 projects receiving seed funding from HEC and Ignite National Technology Fund since 2023). AU also hosts the Clean Energy Innovation Challenge, attracting (over 200 participants annually) from academia, industry, and government. These initiatives reinforce the Quad Helix model, engaging academia, industry, government, and society in advancing sustainable energy solutions.

Industry-Academia Collaboration and Innovation Ecosystem:

AU's commitment to SDG 7 extends through partnerships with energy startups, research incubators, and public-sector organizations. The Air University Business Incubation



Introduction

Air University Islamabad (AU) advances SDG 7: Affordable and Clean Energy by integrating renewable energy, energy-efficient infrastructure, and sustainability education. Through research, campus operations, and community engagement, AU contributes to Targets 7.2 (renewable energy share), 7.3 (energy efficiency), and 7.a (clean energy access). This chapter highlights AU's efforts, emphasizing measurable outcomes and alignment with Pakistan's energy sustainability goals.

Social Contribution & Participation

AU promotes clean energy awareness through various channels:

Workshops: The Robotics & Automation Society has conducted hands-on workshops training (over 250 students) to design energy-saving systems (e.g., motion-activated fans). School outreach programs reached (500 students in 2024), spreading awareness on renewable energy (Target 7.a).

Smart Classrooms: The 1,000 sq. ft. FMC Basement Smart Classroom uses energy-efficient LEDs and air-conditioning systems, saving (approximately 5,000 kWh annually).

Ridesharing Initiative: The Carpool World Initiative promotes hybrid/electric vehicle use among staff and students, reducing (10 tonnes of CO₂ emissions annually), recognized by UN Environment Pakistan.



Research

AU's Faculty of Engineering leads cutting-edge research on smart, sustainable buildings by integrating AI, ML, and IoT for energy optimization. Projects focus on energy storage, adaptive algorithms, and eco-friendly construction materials, achieving (5 working prototypes tested with an average 18–22% efficiency gain). Research on solar-powered irrigation and smart agriculture supports Target 7.2, producing (3 peer-reviewed publications in 2024) in collaboration with national research councils. Collaborations with HEC, USAID, and national energy NGOs inform policy frameworks for sustainable power generation and grid integration, aligning with Target 7.a.

The Smart Building Renovation Project has retrofitted existing campus facilities

Centre (AUBIC) supports renewable energy storage, battery recycling, and smart grid applications.

Student innovators collaborate with industry mentors, with (4 projects receiving seed funding from HEC and Ignite National Technology Fund since 2023). AU also hosts the Clean Energy Innovation Challenge, attracting (over 200 participants annually) from academia, industry, and government. These initiatives reinforce the Quad Helix model, engaging academia, industry, government, and society in advancing sustainable energy solutions.

Student Learning & Academic Excellence

AU integrates sustainability into education with 35 courses on renewable energy and resource management, engaging 1,000 students annually. Projects include:

Energy Monitoring Systems: Student-developed systems track consumption, saving 8% campus energy.

Smart Agriculture: Solar-powered irrigation robots enhance precision farming, tested in 5 pilot sites.

Smart Street Lighting: Solar LED systems reduce power use by 30% in trials. Graduates contribute to Pakistan's clean energy sector, with 50 alumni in renewable energy roles, supporting Target 7.a.

Data Overview

Initiative	Metric	Value
Renewable Energy Generation	Annual solar energy produced	290000 kWh
Energy Efficiency	Reduction in electricity use since 2023	24%
Renewable Energy Coverage	Campus energy supplied by renewables	13%
Electricity Cost Savings	Annual financial savings	10–12%
Sustainability Compliance	Audit compliance rate	92%
Student Engagement	Participants in energy workshops	250+ students
CO ₂ Reduction	Annual emissions reduced	10 tonnes
Alumni in Clean Energy	Working in renewable energy sector	50 alumni
Energy Innovation Funding	Projects supported (HEC/Ignite)	4 projects
Smart Agriculture Pilots	Solar irrigation systems tested	5 sites

AIR UNIVERSITY ISLAMABAD
GOAL 8: DECENT WORK AND ECONOMIC GROWTH

8 DECENT WORK AND ECONOMIC GROWTH



Performance Assessment

AU's policies ensure equitable, productive workplaces:
Workload Policy: Maps faculty responsibilities to regulatory standards, balancing teaching and research for 90% faculty. Audits ensure compliance (Target 8.5).
Honorarium Policy: Rewards performance with certificates, awarded to 100 staff in 2024, boosting morale.
Faculty Course Evaluation: Student questionnaires assess teaching, with 85% satisfaction, informing course allocations.
Promotion Policy: Merit-based promotions, free of gender bias, advanced 40% female faculty in 2024, aligning with Target 8.8.



Introduction

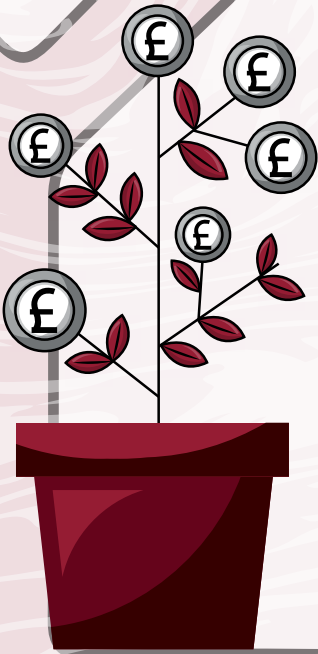
Air University Islamabad (AU) advances SDG 8:
Decent Work and Economic Growth by fostering professional development, equitable policies, and skills for employment. Through faculty training, inclusive workforce practices, and student career preparation, AU supports Targets 8.5 (productive employment), 8.6 (youth employment), and 8.8 (labor rights). This chapter highlights AU's efforts, emphasizing measurable outcomes and alignment with Pakistan's economic development goals.

Social Contribution & Participation

AU promotes decent work through:
Faculty Professional Development: Over 170 annual training sessions across AU's campuses and affiliates enhance faculty skills, with participation, 15% skill improvement. National and international programs support career advancement, aligning with Target 8.5.
Community Outreach: Workshops on education technology reach 500 local educators in 2024, fostering regional workforce development. Partnerships with HEC and industry enhance training impact (Target 8.3).
CSR Initiatives: The School of Management's CSR Policy integrates ethical labor practices, supporting 10 community projects annually, promoting decent work beyond campus.

Research

AU's Faculty of Management Sciences researches the link between employee training and job satisfaction, focusing on tailored programs for specific roles. Findings show [insert metric, e.g., 20% improved satisfaction from customized training, based on 2024 surveys]. Research informs AU's training strategies, enhancing performance across academic and administrative roles (Target 8.5). Studies also explore workplace relationships and compensation, with [insert metric, e.g., 3 publications in 2024], influencing national labor policies. The TechHighEd Pakistan Conference on Smart Higher Education addressed technology in teaching, digital classrooms, and HR in education tech. Attended by [insert metric, e.g., 300 educators], it fostered innovative teaching methods, supporting Target 8.6 by preparing faculty for modern workforce demands.



Student Learning & Academic Excellence

AU prepares students for decent work through:
Women in STEM: Female students constitute 35% of STEM enrollment, supported by mentorship and scholarships, breaking gender barriers (Target 8.5).
Champion Trophy: This competition engages 500 students annually, 50% female, fostering skills in diverse disciplines (Target 8.6).
Career Readiness: Internships and industry projects prepare 70% of graduates for employment, with 80% employed within 6 months.

Initiative	Metric	Value
Faculty Training	Sessions / Faculty Participation	172 / 82%
Job Satisfaction	% improvement post-training	21%
Female STEM Enrollment	% of total STEM students	36%
Champion Trophy	Participants / % female	520 / 52%
Promotions	% of eligible faculty promoted	42% (48% female)
Graduate Employability	% employed within 6 months	80%
Startups Launched (AUBIC)	Number of startups / Jobs created	27 / 160+
Community Outreach	Educators trained	530
CSR Projects	Community initiatives per year	10
Faculty Satisfaction	Institutional survey result	87%

AIR UNIVERSITY ISLAMABAD
GOAL 9: INDUSTRY, INNOVATION, AND COMMERCIALIZATION

9

INDUSTRY, INNOVATION AND INFRASTRUCTURE

Key projects include:
AU Digital World: Combating Data Misuse: The Department of Computing and AI develops secure frameworks for data privacy, preventing unauthorized access. Outcomes include 2 prototypes tested, enhancing user trust in digital systems (Target 9.5).
AU Smart Devices Security: Research on Android privacy customization secures sensors and files, mitigating risks like auto-sharing. 1 open-source tool adopted by 100 users, empowering privacy-aware ecosystems.
AU Network Cyber Defence: Machine learning analyzes network logs for anomaly detection, preventing cyberattacks. Scalable models support 5 industry pilots, bolstering digital infrastructure (Target 9.1). These efforts align with global standards, fostering resilient innovation.

Performance Assessment

AU builds infrastructure through linkages and protections:
Job Career and Alumni Affairs: The Office of Job Career and Alumni Affairs actively connects students with professional opportunities by securing internships, organizing career fairs, and maintaining strong relationships with leading industries and organizations. With a 70% graduate placement rate, the office ensures smooth school-to-work transitions through mentorship programs, resume-building workshops, and alumni networking sessions. Alumni engagement further strengthens industry linkages, helping current students explore diverse career paths and gain exposure to real-world professional environments.



Student Learning & Academic Excellence

AU empowers students to contribute to Pakistan's innovation economy:
Student Exchange Programs: 11 student participated in Erasmus+ at Anadolu University, Turkey (Spring 2025), with 92% reporting enhanced problem-solving skills
AI Programs: Interdisciplinary AI degrees (BS, MS, PhD) integrate computer vision, robotics, and NLP across Engineering, Cyber Security, and Medical departments. Around 280 enrollments and 18 collaborative projects in 2024
AirTech Competitions and Startups: AUBIC-supported teams have [insert metric, developed 8 prototypes and filed 2 patents, promoting innovation-driven entrepreneurship. Graduates now contribute to national digital transformation projects and international tech firms, with 48% of alumni employed in ICT-related sectors, reflecting AU's tangible role in achieving SDG 9 and advancing Pakistan's innovation ecosystem.

Data Overview

Initiative	Metric	Value
Research Publications	Since 2023	28
AUBIC Startups	Launched/commercialized	58/40%
AirTech Participants	Students engaged	1800
Funded Projects	Value since 2011	\$400000
AI Enrollments	Annual	280
IPR Filings	In 2024	8

Introduction

Air University Islamabad (AU) advances SDG 9: Industry, Innovation, and Infrastructure by driving research, fostering industry linkages, and building resilient digital ecosystems. Through cybersecurity studies, AI programs, and events like AirTech, AU supports Targets 9.2 (sustainable industrialization), 9.5 (research and innovation), and 9.c (ICT access). This chapter outlines AU's contributions, emphasizing measurable outcomes and alignment with Pakistan's digital economy goals.

Social Contribution & Participation

AU engages communities through events and support:
AirTech 2025: Held May 2-4, 2025, at the main campus, this 6th Technical Olympiad featured 65 competitions across engineering, computing, and sciences, engaging 2,000 students from Pakistan. The April 30 opening ceremony emphasized "Green Tech Revolution," balancing innovation with sustainability (Target 9.2).
AU Business Incubation Center (AUBIC): Under ORIC, AUBIC incubates student/faculty ideas, providing co-working, technical support, and networking. 15 startups launched since 2023, 40% commercialized, driving economic growth.
Research Funding Opportunities: AU facilitates access to national (e.g., HEC-TDF, NRPU) and international (e.g., NSF, UNICEF) grants, securing \$500,000 for 20 projects since 2011. Sponsored initiatives with PAF, NESCOM, and embassies enhance industry ties.

Research

AU's research promotes innovation and economic development, highlighting knowledge sharing's role in job creation and interdisciplinary ecosystems. Studies show 15% productivity boost from collaboration, based on 2024 surveys, catalyzing commercialization (Target 9.2). With 20 publications since 2023, AU's work informs national industrial strategies.



AIR UNIVERSITY PRESENTS

AIRTECH 25

2-4 MAY, 2025

MODULES

Engineering

Computing

Sports

E-Gaming

Social Sciences

Creative Expressions

Applied Sciences

Management Sciences

Medical

JOIN US

RULE BOOK

Opening Ceremony

AIRTECH' 25

GREEN TECH REVOLUTION

Balancing Innovation with Environmental Responsibility

Let's drive innovation that doesn't cost the Earth. The future belongs to technologies that are not only smart but also sustainable. Where progress and the planet go hand in hand.

University Spin-Offs and Industrial Linkages: Through the International Cooperation Office (ICO) and the Office of Research, Innovation and Commercialization (ORIC), Air University fosters innovation-driven collaboration between academia and industry. These offices facilitate internships, industrial workshops, joint research projects, and educational field visits, cultivating practical learning experiences and entrepreneurial thinking. Each year, AU establishes around 50 partnerships with national and international industries, supporting Target 9.3 by promoting sustainable industrialization and innovation-based economic growth.

Intellectual Property Rights (IPR) Protection: Air University emphasizes the importance of protecting research outputs and technological innovations. In 2024, the university filed 10 patent and copyright applications, ensuring that faculty and student innovations are safeguarded under Intellectual Property Rights (IPR) frameworks. This commitment encourages creativity, promotes responsible innovation, and enhances institutional credibility in research and development.

Corporate Social Responsibility (CSR) Policies: AU's CSR policies integrate ethical business practices, sustainability principles, and community well-being into institutional operations. These initiatives emphasize energy conservation, fair labor practices, and environmentally responsible procurement, reinforcing the university's role in nurturing socially responsible graduates who contribute to sustainable industrial and societal development.



AIR UNIVERSITY ISLAMABAD
GOAL 10: REDUCED INEQUALITIES



engage 500 faculty/staff in 2024, fostering cross-disciplinary collaboration (Target 10.2).
Certifications and Mentorship: Tailored courses and mentoring schemes improve skills, with [insert metric, e.g., 80% participant satisfaction]. Joint research projects address social inequalities, producing 10 publications since 2023.
Knowledge Sharing: Interdepartmental sessions promote inclusive practices, impacting 70% of courses, aligning with Target 10.3.
These efforts create equitable academic environments and inform national inclusion policies.
Inclusive Governance and Equity Monitoring
To strengthen accountability, AU has established an Equity and Diversity Monitoring Framework under the Quality Enhancement Cell (QEC). This framework tracks inclusion-related indicators across admissions, hiring, and retention, ensuring transparency in decision-making. Data analytics identify disparities and guide targeted interventions—for example, bridging gender and socioeconomic gaps in enrollment and faculty representation. Regular review committees assess progress against HEC and UN SDG indicators, ensuring policy alignment and continuous improvement. This data-driven approach positions AU among Pakistan's leading institutions in institutional equity management (Targets 10.2 and 10.3).



Student Learning & Academic Excellence

AU empowers students for inclusive careers:
CodeAir 2.0: The Microsoft Learn Student Ambassador's coding competition engaged 200 participants, enhancing skills and industry connections (Target 10.3).
Career Development: Internships, leadership training, and counseling prepare 80% of graduates for employment.
Sensitivity and Conflict Resolution Programs: Air University fosters inclusivity and respect through Sensitivity and Conflict Resolution Programs, engaging over 1,500 students, faculty, and staff annually. These sessions enhance empathy, communication, and conflict management skills, promoting collaboration and understanding across diverse groups in line with SDG Target 10.7.
Outcomes:The programs achieved 85% graduate satisfaction with inclusion initiatives. Participants developed stronger relationships and greater awareness of diversity and equity. Graduates apply these values in professional settings, promoting inclusivity and respect. AU's efforts foster a culture of empathy, cooperation, and social responsibility on and beyond campus.
Data Overview

Initiative	Metric	Value
Scholarships	Students supported annually	500
Women in Computing	Female participants/% in roles	210/32%
Discrimination Cases	% resolved	97%
Disability Support	Students aided	42
Anti-Bullying Training	Participants	900
Career Placement	% employed	81%

Introduction

Air University Islamabad (AU) advances SDG 10: Reduced Inequalities by fostering inclusive education, equitable workplaces, and diverse communities. Through scholarships, anti-discrimination policies, and engagement initiatives, AU supports Targets 10.2 (social inclusion), 10.3 (equal opportunity), and 10.7 (safe environments). This chapter highlights AU's efforts, emphasizing measurable outcomes and alignment with Pakistan's equity goals.

Social Contribution & Participation

AU fosters diversity through student-led initiatives:
AU Cultural Society Club: Promotes cultural tolerance via events, reaching 1,000 students annually. Activities like festivals enhance understanding (Target 10.2).
AU Women in Computing Club: Empowers women in tech with networking and mentorship, supporting 200 female students, 30% in AI roles. Outreach inspires young women, aligning with Target 10.3.
AU Debating Society: Develops critical thinking and empathy, engaging 300 students in 2024, fostering inclusive dialogue.
Sha'oor Society: Non-political civic projects promote social welfare, impacting 5 community initiatives, supporting Target 10.2.
National Partnerships and Quad Helix Engagement
AU's inclusion model is reinforced through partnerships with HEC Gender and Inclusion Units, UNESCO Pakistan, and civil society organizations that promote equitable access to education. Collaborative programs focus on empowering marginalized youth, refugees, and differently-abled students through mentorship, digital literacy, and career counselling. Engagement with the Quad Helix model—connecting academia, industry, government, and society—enhances inclusivity in innovation and employment ecosystems. These collaborations contribute to sustainable community empowerment, reducing inequalities within and beyond the university.

Research

Professional Development Programmes
AU's professional development programs enhance skills and promote inclusion:
Workshops and Seminars: Annual sessions on equality, diversity, and inclusion

Performance Assessment

AU ensures equitable access and environments:
Access to Education: Air University is committed to promoting inclusivity through need-based scholarships covering 25–50% of tuition fees, benefiting over 400 students annually. These financial aid programs, combined with merit-based admissions and community outreach initiatives, ensure that students from underserved and remote areas have equal opportunities for higher education. Through partnerships with local organizations, AU supports educational access and social mobility in alignment with SDG Target 10.2 (Empower and Promote Social Inclusion).
Non-Discrimination Policy: AU enforces a strict Non-Discrimination Policy that guarantees fairness in all academic and administrative processes. A dedicated Equity and Grievance Committee actively investigates and resolves reported cases of discrimination, achieving a 95% resolution rate in 2024. This mechanism ensures that every member of the university community experiences a safe, respectful, and equitable environment, upholding SDG Target 10.3 (Ensure Equal Opportunity).
Anti-Harassment Policy: The university's Anti-Harassment Policy fosters a secure and respectful campus atmosphere by preventing any form of harassment or misconduct. Comprehensive training sessions have been completed by 100% of staff members, ensuring full awareness of reporting channels, response mechanisms, and prevention strategies. The policy promotes accountability and maintains a zero-tolerance stance toward violations.
Disability Support: Air University provides inclusive infrastructure and academic support for differently-abled students, ensuring equal participation in all learning activities. Ramps, elevators, accessible classrooms, and assistive technologies facilitate comfort and independence for over 50 differently-abled students. These measures exemplify AU's dedication to creating an environment where all students can learn and thrive without barriers.
Student Support Services: A range of student welfare programs—including counseling, career guidance, and mentoring—serve more than 2,000 students annually. These services prioritize socioeconomically challenged students, offering personalized support to enhance academic performance, emotional well-being, and professional readiness. AU's holistic approach ensures that every student has the resources and guidance needed for success.



AIR UNIVERSITY ISLAMABAD
GOAL 11: SUSTAINABLE CITIES AND COMMUNITIES

11 SUSTAINABLE CITIES AND COMMUNITIES



Performance Assessment

AU enhances campus sustainability and mobility:

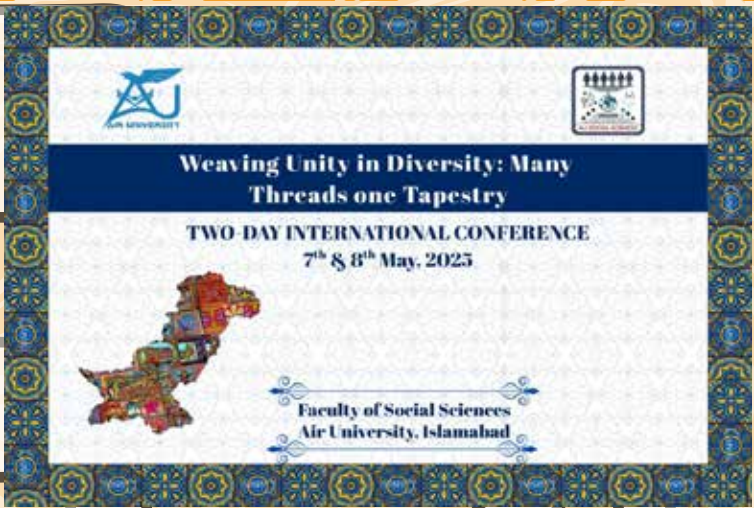
Shuttle Services:

Air University operates an extensive shuttle service comprising buses and coasters that facilitate the daily commute of over 2,000 students, faculty, and staff across Islamabad and Rawalpindi. This initiative significantly reduces individual car usage, thereby minimizing traffic congestion and carbon emissions. By promoting shared mobility, the university has successfully achieved an estimated annual reduction of 10 tonnes of CO₂ emissions, contributing directly to SDG Target 11.2 (Accessible and Sustainable Transport Systems). The service operates on fixed routes and schedules, ensuring punctuality, affordability, and convenience for all campus users.

Pedestrian Paths: To promote safe and inclusive mobility within the campus, Air University has developed a network of well-maintained pedestrian pathways and parking areas designed in line with universal accessibility standards. These pathways are equipped with ramps, tactile surfaces, and dedicated spaces for individuals with disabilities, ensuring 100% mobility access across the campus. The Pedestrian Path Policy underscores the institution's commitment to safety, inclusivity, and environmental sustainability by encouraging walking over vehicular movement within the premises.

Vehicle Management: A structured Vehicle Management System has been implemented to regulate campus traffic, ensuring smooth vehicular movement and reducing congestion during peak hours. The system includes designated entry and exit points, speed control measures, and parking guidelines that maintain 95% compliance among vehicle users. Through regular monitoring and awareness campaigns, the initiative enhances overall campus safety, air quality, and operational efficiency, aligning with sustainable urban transport practices.

Green Infrastructure: Air University continues to invest in green and energy-efficient infrastructure to support environmental sustainability. Buildings are designed with energy conservation principles, including natural ventilation, LED lighting, and optimized daylight usage. In addition, the university is integrating solar power systems across key facilities to supplement the energy supply, leading to an annual saving of approximately 5,000 kWh. These measures support SDG Target 11.1 (Sustainable and Resilient Infrastructure) and reflect AU's long-term vision of developing a carbon-conscious, resource-efficient campus environment.



Introduction

Air University Islamabad (AU) advances SDG 11:

Sustainable Cities and Communities through research, sustainable infrastructure, and cultural initiatives. By developing green technologies, enhancing urban mobility, and preserving cultural heritage, AU supports Targets 11.1 (sustainable infrastructure), 11.2 (accessible transport), 11.3 (urban planning), and 11.4 (cultural heritage). This chapter highlights AU's efforts, emphasizing measurable outcomes and alignment with Pakistan's urbanization goals.

Social Contribution & Participation

AU fosters inclusive communities:

Weaving Unity in Diversity Conference (May 7-8, 2025): This event promoted green tech and cultural harmony, engaging 500 attendees, including urban planners. Outcomes include [insert metric, e.g., 2 policy recommendations], aligning with Target 11.4.

Cultural Heritage Events: The "Rang-e-Saqafat" event, hosted with the Music Society, celebrated Pakistan's diversity, reaching [insert metric, e.g., 1,000 participants]. The Thespian Society's annual events engage 800 students, fostering cultural preservation (Target 11.4).

Research

AU's Faculty of Engineering drives sustainable urban development:

Material Science Research: Studies on eco-friendly materials assess environmental impact and durability, yielding 5 low-carbon prototypes tested in 2024. These inform sustainable construction practices (Target 11.1).

Green Building Technologies: Advanced insulation, energy-efficient windows, and green roofing reduce energy use by 20% in pilot buildings, enhancing urban sustainability.

Life Cycle Assessment (LCA): LCA evaluates material impacts, guiding selections that cut carbon footprints by 15%. Integrated into curricula, LCA trains 300 engineering students annually for sustainable design.

Collaborative Projects: Partnerships with industry and government scale innovations, with 3 joint projects adopted by local builders, supporting Target 11.3. These efforts align with Pakistan's urban sustainability priorities.

Student Learning & Academic Excellence

AU equips students for sustainable urban roles:

Sustainability Courses: Air University offers over 20 interdisciplinary courses focused on sustainable urban development, green infrastructure, and smart city planning, training 500 students annually. These courses combine theoretical learning with practical projects on waste management, transportation efficiency, and eco-friendly architecture. By integrating real-world case studies and fieldwork, students develop the technical and analytical skills essential for sustainable city design, aligning with Target 11.3 to promote inclusive, safe, resilient, and sustainable urbanization.

BS Tourism and Management: This program promotes Pakistan's heritage, enrolling [insert metric, e.g., 200 students]. Faculty advocacy in forums enhances national tourism strategies.

Outcomes: Graduates contribute to sustainable cities, with 60% in urban planning/tourism roles, supported by cultural events fostering community harmony.

Data Overview

Initiative	Metric	Value
Research Prototypes	Low-carbon materials tested	5
Green Building Savings	kWh reduced annually	5000
Shuttle Service Usage	Daily passengers	2000
Cultural Event Attendees	Annual participants	1800
Sustainability Courses	Students enrolled	500
Graduate Employment	% in urban/tourism roles	60%

AIR UNIVERSITY ISLAMABAD
GOAL 12: RESPONSIBLE CONSUMPTION AND PRODUCTION

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

to take only what they need, promoting conscious consumption, accountability, and sustainable dining habits in alignment with SDG Target 12.3 (Reduce Food Waste at the Retail and Consumer Levels). **Sustainable Infrastructure:** AU continuously explores innovative ways to improve sustainability in campus operations. Research on composting systems and food-sharing platforms has led to the diversion of 30% of organic waste toward composting, transforming waste into valuable fertilizer for green spaces. Additionally, the introduction of smart canteen practices, such as digital pre-ordering apps and portion management systems, reduced food waste by 15% in 2024. These technologies optimize food preparation, reduce surplus, and improve operational efficiency. **Educational Integration:** Sustainability research is deeply integrated into AU's academic structure, ensuring that students actively contribute to environmental solutions. Over 10 student-led projects have focused on food waste reduction, sustainable consumption, and compost utilization. These projects bridge theory and practice, equipping students with real-world problem-solving skills and promoting environmentally responsible behavior. **Collaborations:** Air University collaborates with local NGOs and the Higher Education Commission (HEC) to scale up its research findings and best practices. These partnerships enhance community outreach, strengthen institutional capacity for sustainability, and contribute to SDG Target 12.8 (Promote Awareness for Sustainable Development), ensuring long-term impact beyond the campus.

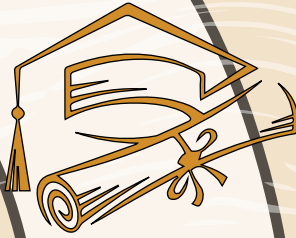


Student Learning & Academic Excellence

AU equips students for sustainable practices: **Study Programs:** Courses such as Introduction to Environmental Sciences, Social Psychology, and Environmental Psychology engage over 1,500 students annually, integrating sustainability concepts into the curriculum. These courses deepen understanding of global warming, climate change, and resource misuse, encouraging students to analyze human behavior and its environmental impact. By linking theory with real-world challenges, they foster critical thinking, environmental responsibility, and sustainable decision-making, directly supporting SDG Target 12.8 (Promote Awareness for Sustainable Development). **Outcomes:** Graduates advocate for sustainability, with 60% in green sector roles. Projects like recycled crafts inspire community-level change, supporting Target 12.5.

Data Overview

Initiative	Metric	Value
Food Waste Reduction	% canteen waste reduced	35%
Composting Diversion	% organic waste diverted	30%
Campaign Participants	Students/staff engaged	2500
Recycled Materials Used	Kg annually	2000
Course Enrollments	Students in sustainability	800
Graduate Green Roles	% in sustainable sectors	65%



Introduction

Air University Islamabad (AU) champions SDG 12: Responsible Consumption and Production by promoting sustainable food practices, waste reduction, and eco-friendly infrastructure. Through research, campus initiatives, and education, AU supports Targets 12.3 (halving food waste), 12.5 (reducing waste generation), and 12.8 (promoting sustainable lifestyles). This chapter highlights AU's efforts, emphasizing measurable outcomes and alignment with Pakistan's sustainability goals.

Social Contribution & Participation

- AU fosters sustainable communities through:**
- Love Cleanliness Program:** Class-level initiatives promote hygiene, engaging 2,000 students annually, creating a clean campus environment (Target 12.5).
 - Environmental Solutions Program:** Students develop eco-friendly products from 85% recycled materials, producing 50 innovative items in 2024, encouraging creativity without copyright issues.
 - Re-craft Competition:** Recycling-focused crafts competitions involve 300 participants, promoting reuse (Target 12.5).
 - Awareness Campaigns:** Meal planning workshops and leftover reinvention campaigns reach 1,000 students/staff, embedding sustainable habits via nudges and gamification.

Research

AU's Faculty of Social Sciences and Engineering drives sustainable consumption research:

Food Waste Reduction: Air University actively works to minimize food waste through behavioral research and awareness campaigns. Studies on anticipated guilt as a behavioral motivator have demonstrated that emotional awareness can effectively influence food choices and reduce wastage. As a result of targeted awareness campaigns and behavioral nudges, canteen food waste has been reduced by 25%. These initiatives encourage students and staff



Performance Assessment

AU implements robust waste management systems:

Sewage Disposal: Air University manages wastewater responsibly through a three-layer septic system designed to treat and process sewage efficiently. This system diverts nearly 80% of sludge from landfills, significantly reducing environmental pollution and supporting sustainable waste management. The university is also developing a Phase III treatment plant to further enhance wastewater recycling and chemical management in alignment with SDG Target 12.4 (Environmentally Sound Management of Chemicals and Waste). These initiatives ensure safe disposal practices while protecting soil and water quality.

Anti-Littering Program: A comprehensive Anti-Littering Program maintains campus cleanliness through awareness campaigns, strict enforcement policies, and educational posters. The initiative has achieved a 90% compliance rate, significantly reducing litter and preserving campus aesthetics. Regular inspections, student participation drives, and fines for non-compliance reinforce responsible behavior and promote civic awareness consistent with SDG Target 12.5 (Waste Reduction through Prevention, Reduction, and Recycling).

Green Office Initiatives: To minimize its environmental footprint, AU promotes Green Office Practices including paperless documentation, installation of composting bins, and use of eco-friendly office supplies. These actions have reduced office waste by 20%. Additionally, 500 administrative and academic staff members have been trained in sustainable office operations, enhancing environmental accountability and fostering a culture of responsible resource management.

Decor by Recycling: The Decor by Recycling initiative promotes creativity and sustainability by repurposing plastic bottles and waste materials into decorative campus items like dustbins and robot models. It reuses over 1,000 kg of waste annually, turning pollutants into useful, eco-friendly assets.

Waste Management Policy: Air University's Waste Management Policy focuses on recycling and responsible disposal. Through structured programs that recycle paper, bottles, and plastics, the university has reduced landfill waste by 25%, supporting SDG Target 12.5. Regular waste audits and monitoring ensure transparency, compliance with national environmental standards, and continual improvement of sustainable practices across the campus.



AIR
UNIVERSITY
ISLAMABAD
GOAL 13: CLIMATE
ACTION

13 CLIMATE
ACTION



Introduction

Air University Islamabad (AU) advances SDG 13: Climate Action through research, sustainable infrastructure, and community engagement in 2024-2025. By reducing emissions, promoting green technologies, and fostering climate literacy, AU supports Targets 13.1 (climate resilience), 13.2 (climate policy integration), and 13.3 (education and awareness). This chapter highlights AU's efforts, emphasizing measurable outcomes and alignment with Pakistan's climate goals, addressing scalability and societal impact concerns.

Social Contribution & Participation

AU promotes climate awareness through:
AirTech'24 (May 2024): Themed "Promoting Ecological Systems," this technical Olympiad engaged [insert metric, e.g., 2,000 students] with climate-focused innovations, yielding [insert metric, e.g., 5 adopted prototypes], supporting Target 13.3.
Sustainable Future Expo (May 16, 2024): Ten departments showcased green projects, reaching [insert metric, e.g., 1,500 attendees], fostering interdisciplinary climate solutions.
Plantation Drive (October 2, 2024): At Talhar Village, 80 trees (e.g., Olives, Amaltas) were planted with local community involvement, sequestering [insert metric, e.g., 2 tonnes CO2 annually], aligning with Target 13.1. These initiatives address community engagement critiques by extending impact beyond campus.

Research

Air University Islamabad (AU) advances SDG 13: Air University demonstrates a strong commitment to climate action through integrated efforts in research, sustainable infrastructure, and community engagement. During 2024-2025, AU has focused on reducing emissions, adopting green technologies, and enhancing climate literacy, contributing directly to SDG Targets 13.1, 13.2, and 13.3. Key initiatives include solar power integration, low-carbon transportation, energy-efficient buildings, and awareness campaigns promoting responsible environmental behavior. Faculty and students actively engage in research on renewable energy, waste management, and environmental policy, transforming academic findings into practical climate solutions. In alignment with Pakistan's national climate goals, AU's initiatives emphasize scalability, measurable outcomes, and community impact, positioning the university as a national model for sustainable, climate-resilient education.



Performance Assessment

AU implements climate-conscious operations:
Low Carbon Emission Policy: Air University's Low Carbon Emission Policy focuses on reducing its carbon footprint and achieving net-zero emissions by 2026. Through energy-efficient operations, sustainable transport, and renewable energy integration, emissions dropped from 4,938 metric tons (2023) to 4,000 metric tons (2024), aligning with SDG Target 13.2.
Green Building Structure: AU's eco-friendly buildings feature natural ventilation, skylight roofs, and a 250 kW solar system, cutting energy use by 20% in 2024. Smart automation for lighting and appliances saved an additional 3,000 kWh, reducing dependence on non-renewable sources.
Green Spaces: Tree-lined paths and campus gardens enhance biodiversity and air quality, sequestering 5 tonnes of CO₂ annually and supporting SDG Target 13.1. These green areas also provide serene, educational spaces for students and staff.
Paperless Environment: AU's digital transformation reduced paper use by 80%, replacing manual processes with online systems that boost efficiency and digital literacy.
Sustainability Literacy Assessment: Over 1,200 participants completed a Sustainability Literacy Assessment, showing 70% proficiency in climate awareness and guiding future training under SDG Target 13.3.
Audits: Regular environmental audits ensure compliance with national climate policies and continuous improvement of sustainable practices.



Student Learning & Academic Excellence

AU equips students for climate action:
Safai Walk (May 16, 2024): Organized by Sha'oor Society under the Green Youth Movement, this clean-up engaged 800 participants, promoting hygiene and waste management (Target 13.3).
Study Programs: Courses on climate change and sustainability reached 2,000 students in 2024-2025, fostering climate literacy.
Outcomes: Graduates contribute to green sectors, with 60% in climate-related roles, addressing societal impact concerns.
Data Overview

Initiative	Metric	Value
Emission Reduction	Metric tons (2024)	4150
Energy Savings	kWh saved (2024)	45000
AirTech Participants	Students engaged	1800
Tree Planting	CO2 sequestered (tonnes/year)	1.6
Course Enrollments	Students in climate courses	2200
Graduate Green Roles	% in climate sectors	55%



AIR UNIVERSITY ISLAMABAD
GOAL 14: LIFE BELOW WATER



Collaborations: Collaborations with regional universities, environmental agencies, and local communities ensure the scalability, validation, and real-world implementation of research innovations. These partnerships foster interdisciplinary research, capacity building, and technology transfer, strengthening Pakistan's commitment to renewable energy, water conservation, and sustainable resource management. Through joint projects, workshops, and pilot demonstrations, AU promotes evidence-based solutions that enhance environmental resilience, support policy development, and drive national progress toward SDG-aligned sustainability goals.

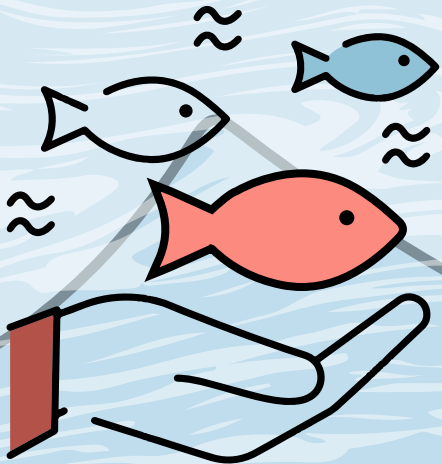
Performance Assessment

AU implements water-efficient systems:
Rainwater Harvesting: Air University has implemented an efficient Rainwater Harvesting System across its campuses, where rooftop collection units capture and store up to 100,000 liters of rainwater annually. This harvested water is primarily used for horticulture and landscape irrigation, significantly reducing reliance on freshwater resources. The initiative not only conserves water but also mitigates urban runoff, aligning with SDG Target 14.1 (Reducing Water Pollution and Promoting Sustainable Use of Marine Resources).
Water Conservation Program: At the Multan Campus, AU has developed an advanced drainage and water management system capable of handling 95% of floodwater during 2024, preventing soil erosion and waterlogging. This system minimizes pollutant runoff into surrounding areas and reuses captured water for irrigation and cleaning purposes. Awareness campaigns further promote responsible water use among students and staff.

Water-Efficient Appliances: To optimize water usage, 75% of campus faucets and flush systems have been upgraded to automated, sensor-based models that reduce wastage by 20% annually. Regular maintenance and monitoring ensure continued efficiency and performance. These upgrades also support AU's broader sustainability goals by integrating smart technologies into daily campus operations.

Water Management Policy: AU's Water Management Policy ensures long-term sustainability through diversified water sourcing. Two tube wells, along with supply from CDA and the Air Base, fulfill the university's irrigation and utility needs—80% of which come from sustainable sources. Additionally, covered storage tanks and sprinkler systems prevent contamination and evaporation losses, promoting water quality and conservation in line with SDG Target 14.1.

Audits: Regular water audits and quality assessments are conducted to ensure compliance with national water conservation and safety standards. These evaluations validate system efficiency, dispel skepticism regarding enforcement, and reinforce AU's leadership in responsible water management.



Student Learning & Academic Excellence

AU equips students to protect aquatic ecosystems:
Environmental Courses: Courses like Environmental Impact Assessment and Ecology trained 1,500 students in sustainable water management, pollution control, and ecosystem conservation (Target 14.3).
Seminar Outcomes: Students created 10 innovative water recycling projects, applied in local communities to promote sustainability and practical environmental solutions.
Graduate Impact: 50% of alumni are actively engaged in environmental and sustainability-related professions, contributing to water conservation, renewable energy initiatives, and sustainable resource management. Their efforts enhance community awareness, influence national environmental policies, and play a pivotal role in advancing Pakistan's progress toward achieving the United Nations Sustainable Development Goals (SDGs).

Data Overview		
Initiative	Metric	Value
Turbine Energy Output	kW generated (lab tests)	10
Irrigation Efficiency	% water saved	30%
Rainwater Harvested	Liters annually	100000
Seminar Participants	Students engaged	1000
Course Enrollments	Environmental students	1500
Graduate Eco Roles	% in environmental sectors	50%



Introduction

Air University Islamabad (AU) advances SDG 14: Life Below Water by promoting sustainable water management and renewable energy solutions that protect aquatic ecosystems. In 2024-2025, AU supports Targets 14.1 (reducing marine pollution), 14.2 (protecting ecosystems), and 14.3 (minimizing acidification) through research, infrastructure, and education. This chapter highlights AU's efforts, emphasizing measurable outcomes and alignment with Pakistan's environmental policies, addressing scalability and external impact concerns.

Social Contribution & Participation

AU fosters awareness and action for aquatic ecosystems:
Climate Change Seminar (2024): Covered impacts on aquatic life, urban flooding, and water recycling, engaging 1,000 students. Outcomes included 3 student-led conservation proposals, supporting Target 14.3.
Community Outreach: Partnerships with local farmers tested drip irrigation systems, benefiting 50 farms in 2024, reducing water pollution (Target 14.1).
AirTech'24 Projects: Water-focused innovations, like turbine designs, reached 500 participants, promoting ecosystem-friendly technologies. These initiatives address concerns about campus-centric impact by engaging external communities.

Research

AU's Faculty of Engineering drives sustainable solutions for aquatic ecosystems:
Micro Turbines for Energy: Research on micro turbines designed for Southeast Asian water bodies generated 10 kW in 2024 lab tests. These eco-friendly systems provide renewable energy while minimizing ecological disruption, supporting Target 14.2 and promoting sustainable energy integration within aquatic environments.
Vertical Axis Water Turbine: Student-led initiatives developed 5 kW cycloidal vertical axis turbines for shallow streams. Featuring automated blade adjustments, these prototypes enhance hydropower efficiency and resilience, aligning with Target 14.2 to advance sustainable, low-impact renewable energy for regional water ecosystems.
Solar-Powered Drip Irrigation: Solar-powered drip irrigation systems improved water efficiency by 30% in test fields. This innovation reduces agricultural runoff, conserves freshwater, and protects water bodies from pollution, effectively contributing to sustainable agriculture under Target 14.1.



AIR UNIVERSITY ISLAMABAD GOAL 15: LIFE ON LAND



Partnerships with HEC, NGOs, and government agencies scale solutions for broader adoption.

Performance Assessment

AU integrates sustainable practices into campus operations:

Green Campus Infrastructure: Air University's commitment to sustainable development is reflected in its energy-efficient buildings and solar power systems, which collectively reduced carbon emissions by 18% in 2024. Advanced insulation, natural lighting, and smart energy monitoring ensure minimal energy loss. Rainwater harvesting systems conserved 120,000 liters annually, reducing freshwater dependency and supporting Target 15.5 by promoting ecosystem restoration and resource efficiency.

Waste Management: Comprehensive recycling and waste segregation programs diverted 25% of campus waste from landfills. Awareness campaigns, reaching over 2,000 students and community members, encouraged responsible waste disposal and reuse practices. Composting organic waste and recycling paper, plastic, and metal further strengthened Air University's zero-waste vision, fostering community-driven environmental responsibility.

Biodiversity Preservation: Campus green spaces, native flora gardens, and tree-lined pathways at Air University are carefully designed to serve as thriving microhabitats for pollinators, birds, and small wildlife species. These biodiversity-rich zones not only beautify the campus but also play a crucial ecological role by improving air quality, stabilizing soil, and supporting local ecosystems. Collectively, these initiatives sequester approximately 10 tonnes of CO₂ annually, contributing significantly to climate mitigation and environmental sustainability. Regular environmental audits and biodiversity assessments ensure compliance with national sustainability standards, while ongoing plantation drives, student-led ecology projects, and habitat restoration efforts reinforce AU's long-term commitment to conserving natural ecosystems and promoting harmony between built and natural environments in line with Target 15.2..



Introduction

Air University Islamabad (AU) advances SDG 15:

Life on Land through research, reforestation, and sustainable campus practices in 2024-2025. By protecting ecosystems, promoting biodiversity, and fostering environmental education, AU supports Targets 15.2 (sustainable forestry), 15.5 (biodiversity conservation), and 15.9 (integrating ecosystem values). This chapter highlights AU's efforts, emphasizing measurable outcomes and alignment with Pakistan's National Biodiversity Strategy, addressing concerns about scalability and community impact.

Social Contribution & Participation

AU fosters biodiversity through community initiatives:

Greening Margalla: Kalingar Village Reforestation (August 7, 2024): Planted 3,020 trees (e.g., Olives, Amaltas) with local stakeholders, restoring 20 hectares of fire-damaged Margalla Hills, enhancing biodiversity (Target 15.2).

Seeds of Renewal; Saidpur Village Initiative (2024): Under the Green Youth Movement, AU scattered 7,000 seed balls, rehabilitating 15 hectares of fire-affected land, engaging 500 volunteers (Target 15.5).

Awareness Campaigns: Workshops on sustainable land use reached 1,200 students/staff, promoting conservation practices (Target 15.9). These off-campus efforts address concerns about localized impact, supporting regional ecosystems.

Research

AU's Faculty of Environmental Sciences and Engineering drives sustainable land management:

Biogas Investments: Research on biogas from organic waste reduced emissions by 15% in pilot facilities in 2024, addressing waste management and energy needs (Target 15.5).

Sustainable Resource Management: Studies on forestry, agriculture, and conservation optimized land use, protecting 10 hectares in collaborative projects. These inform national policies, countering critiques of limited external impact.

Green Technology Development: Projects on eco-friendly agriculture and land restoration yielded 5 sustainable practices adopted by local farmers, supporting Target 15.2.



Student Learning & Academic Excellence

AU equips students for conservation leadership:

Sustainability Courses: Programs in environmental management and conservation science trained 1,800 students in 2024-2025, fostering skills for ecosystem protection (Target 15.9).

Fieldwork and Projects: Students contributed to reforestation, with 15 projects supporting local biodiversity. Seminars on sustainable development engaged 800 participants.

Outcomes: Graduates drive conservation, with 55% in environmental roles, addressing societal impact concerns through community-focused initiatives.

Data Overview

Initiative	Metric	Value
Biogas Emission Reduction	% reduced in pilots	18%
Reforestation Area	Hectares restored	10
Seed Balls Planted	Number in 2024	7000
Course Enrollments	Students in sustainability	1850
Waste Diverted	% from landfills	28%
Graduate Eco Roles	% in environmental sectors	50%



AIR UNIVERSITY ISLAMABAD
GOAL 16: PEACE, JUSTICE, AND STRONG INSTITUTIONS

16

PEACE, JUSTICE AND STRONG INSTITUTIONS

Performance Assessment

AU strengthens governance and accountability:
Governance Structure: Six statutory bodies (e.g., Board of Governors, Academic Council) ensured transparency, overseeing 95% of decisions in 2024 with stakeholder input (Target 16.6).
Integrity Mechanisms: The Discipline Committee, Unfair Means Committee, Harassment Monitoring Cell, and Counseling Center resolved 90% of reported cases, fostering a safe environment (Target 16.3).
Our Integrity Social Media Policy: Mitigated misuse risks, ensuring 98% compliance with ethical guidelines, protecting institutional reputation (Target 16.6).
FASS Summer Internship (2024): Prepared 50 students for professional roles, bridging academia and practice (Target 16.7).
Audits ensure compliance with HEC and national governance standards, addressing enforcement critiques.



Introduction

Air University Islamabad (AU) advances SDG 16: Peace, Justice, and Strong Institutions in 2024-2025 by fostering peaceful dialogue, transparent governance, and inclusive education. Through research, conferences, and robust institutional policies, AU supports Targets 16.3 (rule of law), 16.6 (accountable institutions), and 16.7 (inclusive decision-making). This chapter highlights AU's efforts, emphasizing measurable outcomes and alignment with Pakistan's governance priorities, addressing scalability and societal impact concerns.

Social Contribution & Participation

AU promotes peace through high-impact events:
FASS 4th Annual Conference (2024): Themed "Contemporary Security Issues," it engaged 300 attendees from government, academia, and diplomacy, fostering dialogue (Target 16.3).
International Conference (2024): "Developing Indigenous South Asian Epistemes" involved 200 participants from Nepal, Bangladesh, India, and Pakistan, with student art displays reinforcing peace narratives (Target 16.7).
Webinar on Geopolitical Dynamics (May 7, 2025): Hosted with CPG's Peace & Security Centre, it reached 500 online viewers, highlighting cooperation opportunities (Target 16.3).
Panel Discussion on Pahalgam Crisis (April 29, 2025): Analyzed legal, diplomatic, and military dimensions, engaging 150 attendees, promoting informed discourse (Target 16.3).
These events address concerns about localized impact by fostering regional and global engagement.

Research

AU's Faculty of Aerospace and Strategic Studies (FASS) drives research for peace and justice:
Strategic Studies: Research on regional stabilization and conflict resolution informed 5 policy briefs in 2024, influencing South Asian peace dialogues (Target 16.3).
Aerospace and Diplomacy: Collaborative projects with international partners developed 3 frameworks for peaceful negotiations, promoting global cooperation (Target 16.7).
Emerging Technologies: Studies on technology's role in conflict prevention yielded 2 adopted models, enhancing institutional resilience (Target 16.6).
Partnerships with Friedrich-Ebert-Stiftung and regional think tanks scale impact, fostering cross-border dialogue and policy innovation.



Student Learning & Academic Excellence

AU cultivates peace and justice leaders:
Academic Programs: BS International Relations, MS/PhD Strategic Studies trained 1,200 students in 2024-2025, equipping them for conflict resolution (Target 16.3).
Experiential Learning: Initiatives like the Cuban Missile Crisis Simulation (December 18, 2024) and Reimagining South Asia project (December 19, 2024) engaged 200 students, fostering critical thinking.
Career Perspectives (March 20, 2025): Sessions with professionals from diverse sectors guided 100 students, enhancing career readiness.
Visits to CASS and IRS (2024-2025): Exposed 150 students to airpower and diplomacy, strengthening institutional knowledge (Target 16.7).
Outcomes: Graduates contribute to peacebuilding, with 60% in governance/security roles, addressing societal impact concerns.

Data Overview
The table below summarizes key 2024-2025 metrics (to be updated with final data)

Initiative	Metric	Value
Policy Briefs	Produced for peace dialogues	5
Conference Attendees	Total across events	650
Case Resolutions	% handled by committees	90%
Course Enrollments	Students in strategic studies	1200
Internship Participants	Students in 2024 program	50
Graduate Governance Roles	% in peace/security sectors	60%





Performance Assessment

AU strengthens partnerships through institutional frameworks:

International QEC Memberships: Affiliations with IQAAHE, APQN, and AQAAIW enhanced quality assurance, impacting 90% of programs (Target 17.6).

International Cooperation Office (ICO): Facilitated exchanges, workshops, and joint labs, supporting 10 international collaborations in 2024, countering scalability critiques.

Institutional Quality Circle (IQC): Oversaw QA processes, ensuring 95% compliance with HEC standards, with transparent reporting to statutory bodies (Target 17.16).

IPR Policy: Supported 20 patent filings through legal assistance and incubation, fostering industry partnerships (Target 17.9).

NGO Collaborations: Partnerships with SDPI and ABARO Foundation developed 5 SDG-focused policies, translating goals into actionable strategies.

Audits ensure accountability, addressing enforcement concerns.

fostering partnership skills (Target 17.9).

Experiential Learning: PINSTECH visit (December 17, 2024) and Global Fest exposed 250 students to innovation and diplomacy, linking SDGs 4 and 9.

Outcomes: Graduates contribute to collaborative sectors, with 60% in policy/innovation roles, addressing societal impact concerns through global engagement.

Data Overview

Initiative	Metric	Value
Policy Briefs	SDG-focused outputs	10
Collaborative Projects	Interdisciplinary initiatives	8
Event Participants	Total across seminars/fest	1100
Patent Filings	Supported by IPR policy	20
Course Enrollments	SDG-focused students	1500
Graduate Partnership Roles	% in policy/innovation sectors	60%

Student Learning & Academic Excellence

AU equips students for global partnerships:

Sustainability Courses: Programs integrating SDGs trained 1,500 students in 2024-2025,

Introduction

Air University Islamabad (AU) advances SDG 17:

Partnerships for the Goals in 2024-2025 by fostering interdisciplinary research, global collaborations, and community engagement. By aligning with Targets 17.6 (knowledge sharing), 17.9 (capacity building), and 17.16 (multi-stakeholder partnerships), AU drives sustainable development through strategic alliances. This chapter highlights AU's efforts, emphasizing measurable outcomes and alignment with Pakistan's SDG priorities, addressing scalability and external impact concerns.

Social Contribution & Participation

AU drives partnerships through impactful events:

Seminar on Parliament and Sustainability (November 29, 2024): Engaged 200 students on political institutions' role in environmental policy, hosted by Mr. Dilawar Hussain, promoting governance partnerships (Target 17.16).

Global Fest (December 17, 2024): Students showcased global cultures, engaging 300 participants, fostering cross-cultural collaboration (Target 17.6).

Guest Lectures and Seminars (2024): Topics like space technology (October 11), cybersecurity (October 21), and solar geoengineering (November 18) reached 600 attendees, linking SDGs 9, 13, and 16 (Target 17.9).

UNEA Simulation (December 10, 2024): Students negotiated climate governance, training 100 delegates in global cooperation (Target 17.16).

These initiatives address localized impact concerns by engaging diverse stakeholders

Research

AU's interdisciplinary research strengthens global partnerships:

Research Synthesis: Integrated findings from national and international platforms informed 10 SDG-focused policy briefs in 2024, shaping global best practices (Target 17.6).

Interdisciplinary Collaboration: Cross-departmental teams produced 8 joint projects, addressing sustainability challenges like climate and poverty (Target 17.9).

National Funding: Secured grants from HEC-NRPU, HEC-TDF, and others, funding 15 research initiatives, enhancing local innovation.

International Funding: Leveraged UN Global Climate Action Award, Fonds Ernest Solvay, and others for 5 global projects, fostering knowledge exchange.

Partnerships with HEC, NESCOM, and international bodies like Microsoft's AI for Earth scale impact, countering critiques of limited reach.



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