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SUSTAINABLE DEVELOPMENT GOAL 9

Industry, Innovation and Infrastructure

ZIAUDDIN UNIVERSITY

Overview and Institutional Commitment

Research and innovation are fundamental drivers of sustainable development at Ziauddin University. The Office of Research, Innovation and Commercialization (ORIC) provides strategic leadership for research development, supports faculty and students in securing competitive funding, promotes interdisciplinary collaboration and facilitates the translation of research into practical solutions.

Key Contributions and Initiatives

Research Priorities and Governance

- Priority themes: public health and preventive medicine, clinical and translational research, pharmaceutical sciences, biomedical engineering, artificial intelligence in healthcare, medical education, environmental health and sustainable healthcare systems.
- Further themes include business innovation and entrepreneurship, law and public policy, and media for social impact.
- Governance through ORIC, the Research Advisory Committee, Institutional Review Boards / Ethics Committees and academic departments, with QEC monitoring research performance indicators.

Sustainability-Focused Research

- Climate change and public health; water quality and sanitation; environmental pollution and health outcomes.
- Renewable energy applications in healthcare; sustainable urban development; responsible business practices.
- Community nutrition and food security; maternal and child health; digital health and telemedicine.

Innovation, Commercialization and IP

- Intellectual property development, technology transfer, industry partnerships and research commercialization.
- Entrepreneurship support and innovation capacity building.
- Support for patent filing and licensing, confidentiality and disclosure procedures.

Collaboration, Student Research and Knowledge Transfer

- Collaboration with national and international universities, healthcare organizations, government agencies, industry, professional associations and NGOs.
- Student research at undergraduate, postgraduate and doctoral levels.
- Knowledge transfer through publications, conferences, community education, clinical practice improvements and policy recommendations.

Infrastructure and Digital Capability

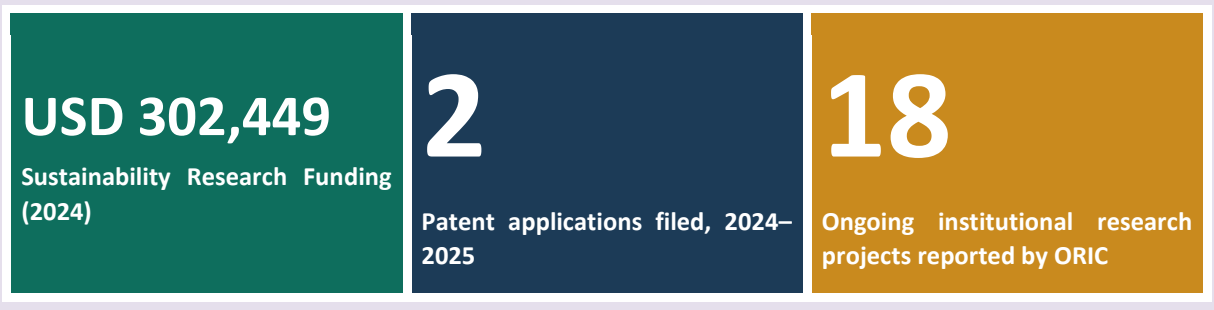
- Sustainability considerations built into infrastructure development.
- Digital governance: electronic document management, online approval systems, institutional dashboards and data analytics.

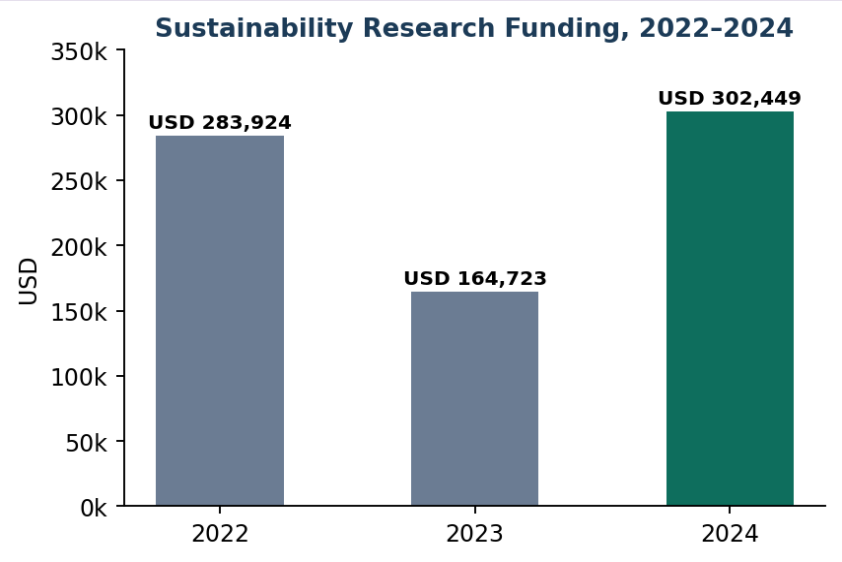
Indicators Monitored

The University monitors the following indicators relevant to this goal:

Indicator	Reporting Frequency
Research publications	Annual
Research grants awarded	Annual
Sustainability research funding	Annual
Active research projects	Annual
Research collaborations	Annual
Student research participation	Annual
Innovation and commercialization initiatives	Annual
Intellectual property outputs	Annual

Evidence, Case Studies and Verified Sources





Sustainability research funding trend, 2022–2024

The variation in annual funding reflects the competitive nature of research grants and the timing of externally funded projects. The increase recorded in 2024 demonstrates renewed momentum in sustainability-focused research and the University's growing capacity to attract competitive funding.

ORIC-Verified Research Funding, 2024–2025

Funding Category	Amount (PKR)
International	26,364,336
National	5,564,143
Clinical Trial Unit (CTU)	348,364,452
Total Research Funding	**590,562,960**

Patents Filed by Ziauddin University, 2024–2025

Category	Patent Application 1	Patent Application 2
Patent Title	Mobile Health Application	Glipad ACRO
Applicant(s)	Shahzad Bashir, Prof. Dr Yasmin Amarsi, Prof. Dr Saad Jawaid Khan, Danyal Talpur	Muhammad Ather Hashmi, Muhammad Abid Khan
Filed Date	5 November 2024	12 November 2024
Purpose	Improve self-care ability and quality of life for heart failure patients	Reduce pain during acromioclavicular joint mobilization therapy
Technology Used	Mobile app, Bluetooth wristband for vital-sign monitoring, BioBERT-based chatbot	EVA foam, ergonomic design for therapy comfort
Patent Application No.	227/2025	226/2025

Ongoing institutional research projects reported by ORIC for 2024–2025 include NRPU-5, NIH-6, PSF-ZU-Med-554, TMF, Maturity Matrix, WHO APW 2, CREDO, ISARIC PM, ACORN HAI Variation, MegaRox, REMAP CAP AP, GATES-ACUTE, Financial Literacy, GENOMICC Extension, PPIE Wellcome, PPIE FCDO, BioMed 5.0 and ISARIC IPOP.

CASE STUDY — VERIFIED SOURCE: DCE Sustainability Report 2025

DCE activities were most strongly aligned with SDG 9, which accounted for 16.9% of the department's tagged activities in the 2024–2025 reporting year. Examples include the SSUET Concrete Fest and ACI Frisbee / Bridge Building Competitions (inter-university competitions in sustainable construction materials) and industrial visits to the Dynamic Ready-Mix Concrete Batch Plant and the Jhimpir Wind Energy Farm, exposing students to quality control and renewable energy systems.

Future Priorities (2026–2030)

Priorities identified in the Sustainability Report 2025–2026 that advance this goal:

- Increase externally funded research projects.
- Expand sustainability-focused research programmes.
- Enhance innovation and commercialization capacity.
- Increase research publications in high-impact journals.
- Improve research data management and reporting systems.
- Increase externally funded, interdisciplinary SDG-focused research (strategic recommendation).

Impact Assessment and Conclusion

Research, ORIC-led commercialization and applied innovation underpin the High impact level for SDG 9. Resolving the funding-reconciliation point flagged above will strengthen the quality of the evidence.