13

SUSTAINABLE DEVELOPMENT GOAL 13

Climate Action

ZIAUDDIN UNIVERSITY

Overview and Institutional Commitment

The University's Climate Action Strategy is aligned with SDG 13 and recognizes climate action as a shared institutional responsibility involving leadership, faculty, staff, students and external partners. Its centrepiece for the reporting period is an established baseline carbon footprint.

Key Contributions and Initiatives

Climate Action Strategy

- Reduce institutional greenhouse gas emissions and improve climate resilience.
- Promote environmental awareness and support climate-related research.
- Encourage sustainable transportation practices.
- Integrate climate considerations into infrastructure planning.

Climate Risk and Adaptation

- Climate risks considered: rising temperatures, extreme weather, increased energy demand, water scarcity, infrastructure vulnerability, public-health impacts and supply-chain disruptions.
- Adaptation: preventive maintenance of infrastructure, emergency preparedness planning, efficient water management, tree plantation and landscaping, sustainable building maintenance and improved environmental monitoring.

Awareness, Education and Research

- Student engagement, faculty seminars, sustainability campaigns, environmental workshops and community awareness programmes.
- Climate topics integrated into relevant academic programmes.
- Research on climate change and public health.

Indicators Monitored

The University monitors the following indicators relevant to this goal:

Indicator	Reporting Frequency
Electricity consumption	Annual

Indicator	Reporting Frequency
Fuel consumption	Annual
Carbon footprint	Annual
Renewable energy generation	Annual (where applicable)
Climate awareness activities	Annual

Evidence, Case Studies and Verified Sources

3,717.67 MT CO_2e
Baseline Carbon Footprint

Based on institutional data available during the reporting period, the University's baseline carbon footprint is 3,717.67 metric tonnes CO_2e. This baseline provides a reference point for measuring future reductions and evaluating the effectiveness of climate action initiatives. The University intends to strengthen its carbon-accounting methodology by improving data collection, expanding emissions coverage and aligning with internationally recognized reporting standards.

Greenhouse Gas Emission Sources Monitored

Scope	Sources Identified
Scope 1 (Direct)	Institutional vehicles; fuel combustion; backup generators; medical and laboratory equipment using fuel
Scope 2 (Indirect Energy)	Purchased electricity; grid-supplied energy
Scope 3 (Other Indirect)	Staff and student commuting; business travel; waste disposal; water consumption; procurement activities

CASE STUDY — VERIFIED SOURCE: DCE Sustainability Report 2025
The DCE Plantation Drive (8 August 2025, Education City Site, Karachi) engaged about 50 B.E. Civil Engineering students and combined tree planting with discussion of afforestation, urban green planning and the role of engineers in climate mitigation (SDG 11, 13, 15, 17). DCE competitions and industrial visits were also mapped to SDG 13.

Future Priorities (2026–2030)

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

- Reduce carbon emissions through operational improvements.
- Strengthen greenhouse gas inventory systems.
- Enhance climate resilience planning.

- Promote low-carbon practices among the University community.
- Integrate climate considerations into infrastructure development.
- Enhance greenhouse gas accounting.

Impact Assessment and Conclusion

Establishing a documented baseline of 3,717.67 MT CO_2e is the University's principal SDG 13 milestone and the reference point against which 2026–2030 reductions will be measured.