The University of Faisalabad

Towards a Greener, More Sustainable Future

Revised Climate Action & Carbon Neutrality Plan (2025 – 2030)

Reducing Emissions | Improving Resource Efficiency | Building a Sustainable Campus

Neutrality Plan 2025–2030





LOWER EMISSIONS

RESOURCE EFFICIENCY

SUSTAINABLE CAMPUS OPERATIONS

Revision 2.0 (Jan 2025)

SDG 13

01 · ORIENTATION

Executive summary

This University Climate Action Plan translates SDG 13 into a practical whole-university program for 2025–2030. It brings together the earlier Climate Action and Carbon Neutrality policy material, the university's energy and climate evidence, transportation initiatives and stakeholder-engagement records.

The plan moves TUF from separate activities to a coordinated management system with annual targets, departmental ownership, evidence files and public reporting. It prioritizes direct emissions reductions, reliable data, smart infrastructure, sustainable mobility, climate education, research, biodiversity and community partnerships.



Verify

Establish a verified greenhouse-gas baseline and annual inventory.



Transform

Scale smart energy management, renewable energy, efficient buildings and responsible resource use.



Move

Reduce vehicle dependence through parking management, walking, cycling, electric mobility and shuttle support.



Engage

Build climate literacy through teaching, research, student leadership, Environmental Society activities and partnerships.

Transition note: an earlier policy draft referenced 31 December 2028; this revised plan sets a 2025–2030 pathway with a proposed 2030 assessment target, subject to formal approval and baseline validation. Progress will be reviewed annually and actions that underperform will be corrected.

02 · ALIGNMENT

SDG 13 alignment and institutional scope

SDG 13 calls for urgent action to combat climate change and its impacts. At TUF, climate action will be embedded in operations, infrastructure, procurement, teaching, research, student life and external engagement.

13.1 Resilience: strengthen preparedness for heat, air pollution, water stress and operational disruption.

13.2 Policy integration: include climate considerations in planning, budgets, infrastructure and decisions.

13.3 Capacity building: develop climate knowledge, skills, awareness and leadership across the university.

Institutional scope

Campuses and university-controlled operations, with relevant value-chain emissions assessed progressively as data becomes reliable.

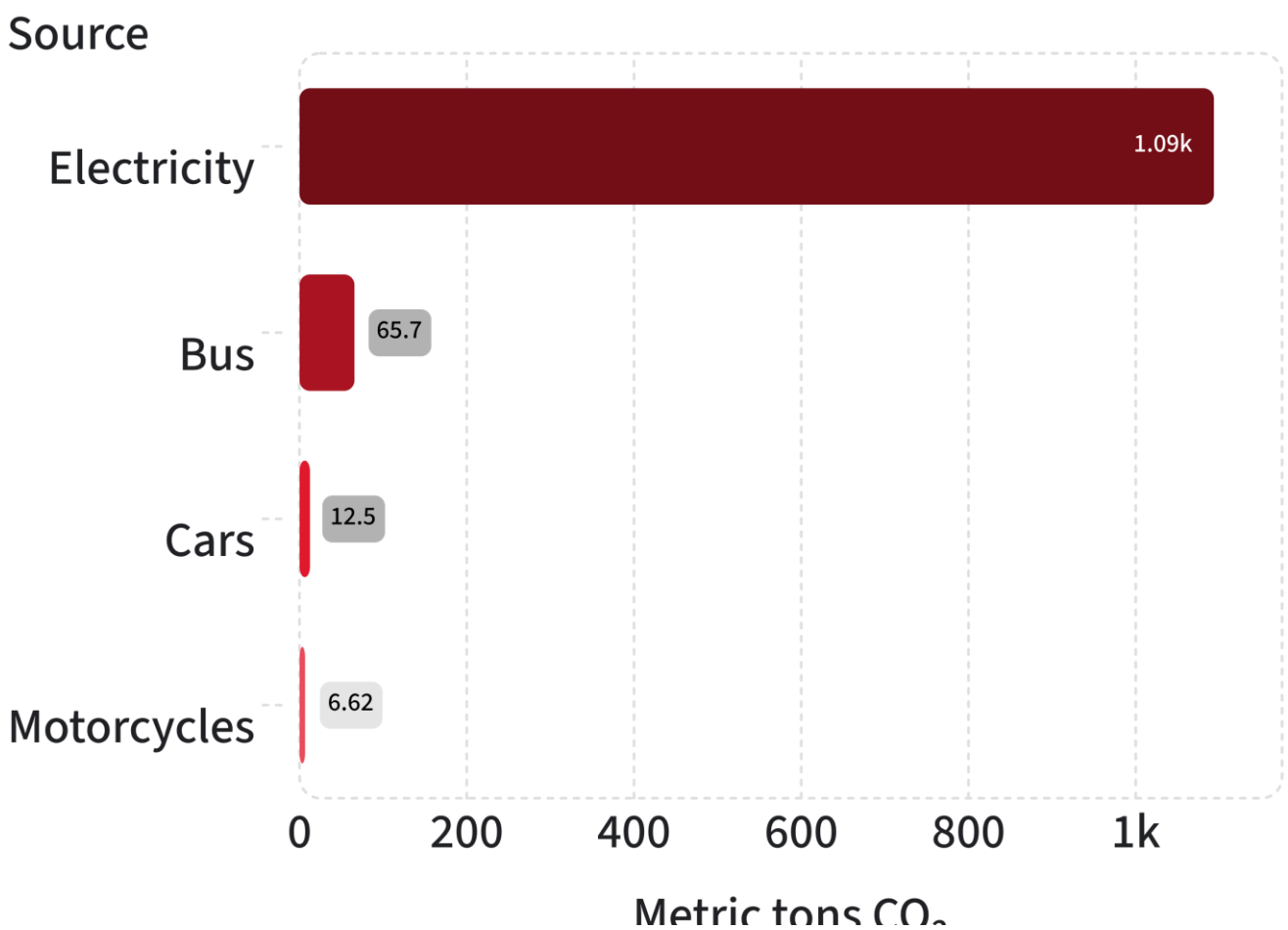


Connected SDGs

SDG 7 | SDG 9 | SDG 11 | SDG 12 | SDG 15 | SDG 17

Baseline carbon footprint: measure before we reduce

Available evidence reports electricity emissions of 1,093.44 metric tons, bus emissions of 65.70 metric tons, car emissions of 12.53 metric tons and motorcycle emissions of 6.62 metric tons. The same source reports a carbon footprint of 1,178.29 metric tons.



Reported emissions components requiring validation. Electricity is the dominant reported component; the official total requires validation before use.

Data-quality note

The source also states "total CO_2 = 4,650.23 metric tons," which does not reconcile with the listed components. The official baseline must validate the boundary, units, activity data and calculation method before publication.

Baseline control	Required evidence	Review decision
Boundary	Operational areas and value-chain categories	Confirm what is included before publication
Activity data	Energy, bus, car and motorcycle records	Validate units and reporting period
Calculation	Method and emission factors	Approve a repeatable annual inventory method

04 · AMBITION

2030 ambition and climate principles

The plan adopts a 2025–2030 pathway toward a lower-carbon, more resilient university. The revised cover identifies 31 December 2030 as the proposed carbon-neutrality target date; this remains subject to formal approval, baseline verification and feasibility review.

2025	Pathway begins
2026	Data and delivery
2027	Infrastructure scale
2028	Earlier target retained as operational learning
2029	Verification and readiness
2030	**Proposed assessment target**

The earlier policy material proposed a 31 December 2028 carbon-neutrality target. This plan carries forward its operational priorities while strengthening data, delivery, verification and institutional readiness.

Principles for delivery

- Measure emissions consistently across Scope 1, Scope 2 and material Scope 3 categories.
- Reduce emissions at source before considering offsets.
- Prioritize affordability, comfort, health, safety and resilience.

Principles for trust

- Use transparent assumptions and disclose data gaps.
- Make progress visible through an annual climate action statement.
- Review feasibility before confirming the proposed target date.

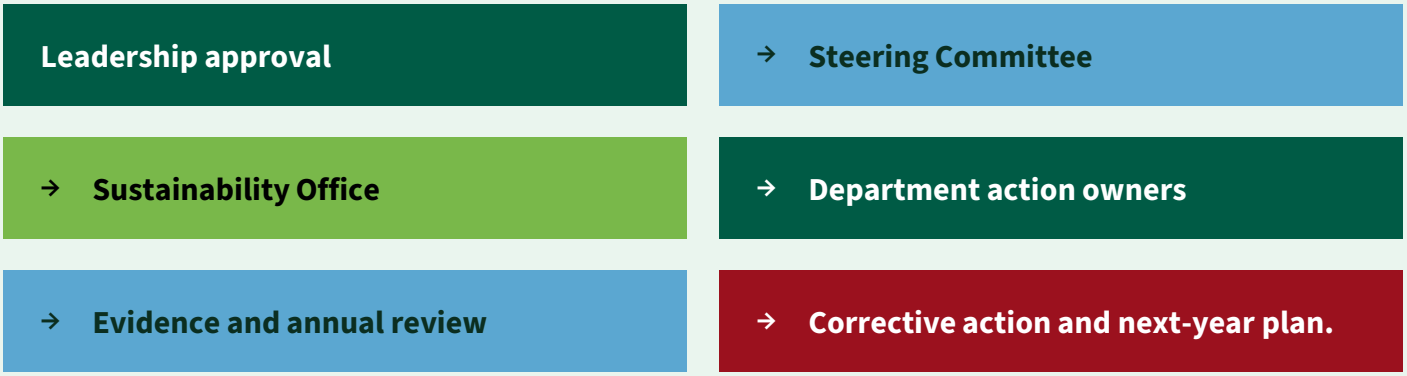
05 · GOVERNANCE

Governance model: who leads and who delivers

A Climate Action Steering Committee chaired by university leadership should provide oversight, while a Sustainability Office or designated institutional unit coordinates delivery and maintains the inventory.

Accountable group	Responsibilities
Leadership	Approves the plan, priorities, annual budget and public progress statement.
Sustainability coordination	Sets methods, collects data, tracks indicators and reports risks.
Departments	Own actions within their operational control and submit evidence each year.
Students, faculty, staff and partners	Participate through research, campaigns and feedback.

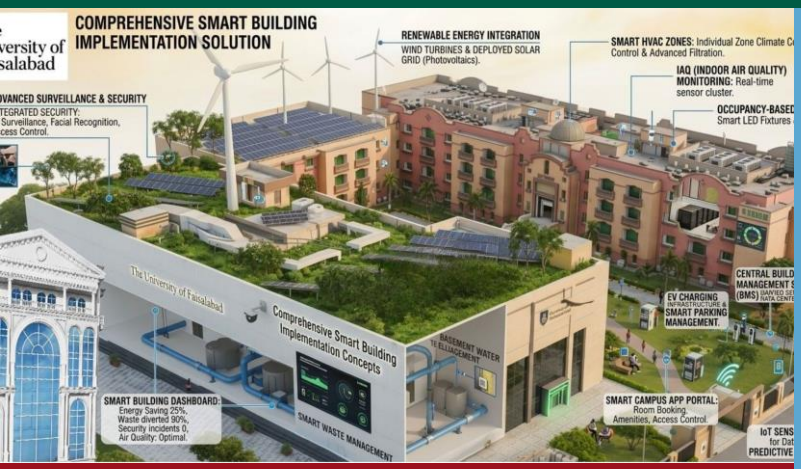
FLOWCHART · ANNUAL REVIEW



06 · ENERGY

Energy and smart campus transformation

Energy is the first operational priority because electricity is the largest reported component of the available footprint. TUF will combine renewable energy, efficient equipment, smart controls and regular performance monitoring.



Smart-building infrastructure as an operational platform for measured improvement.

Priority actions

- Maintain and expand solar photovoltaic systems where technically and financially feasible.
- Improve lighting, cooling, laboratories and high-consumption facilities.
- Use smart classroom controls to schedule AC, lights, screens and other devices around the timetable.

Generate

Monitor renewable generation and technical feasibility.

Control

Schedule AC, lighting, screens and other devices.

Measure

Track electricity, peak demand and equipment performance.

Use the carbon-footprint monitoring and air-quality system to support evidence-led decisions. Annual evidence should include electricity consumption, renewable generation, peak demand and equipment performance.

07 · MOBILITY

Sustainable mobility, parking and walking

TUF's transportation program will reduce unnecessary private-vehicle use while improving access, safety and convenience.

Current mobility indicators. Parking occupies a small share of the main campus while the plan expands walking and lower-emission mobility.

Indicator	Value
Main campus area (m^2)	465158.01
Parking area (m^2)	3020.78
Parking ratio (%)	0.65
Sustainable transport initiatives	4
Reported electric-scooter usage increase (%)	89

Walk and cycle

Maintain designated pedestrian pathways connecting academic and administrative buildings. Encourage cycling and low-emission travel for people living within approximately 8 km.

Manage access

Manage parking access and protect land for greener campus functions. Operate and evaluate electric shuttle support for senior employees and staff living near campus.

Track change

Track electric mobility adoption and review the reported 89% increase in electric-scooter usage.

Evidence cycle

Review pathway condition, parking access, shuttle performance and mobility adoption through annual reporting.

Resource efficiency: water, waste, procurement and construction

Climate action extends beyond electricity. Resource decisions affect emissions, resilience, costs and the quality of the campus environment.

Priority	Action	Indicator	Evidence
Water	Monitor consumption, reduce losses and improve wastewater management.	Consumption and loss records	Annual operational data
Waste	Segregate at source, increase recycling, reduce avoidable waste and strengthen organic-waste management.	Segregation, recycling and organic-waste records	Routine management evidence
Procurement	Include energy efficiency, durability, repairability, resource efficiency and environmental performance in purchasing decisions.	Purchasing criteria and decisions	Procurement records
Construction	Assess embodied carbon and climate resilience in major infrastructure projects.	Project assessment	Infrastructure documentation
Operations	Record activity data and make environmental performance part of routine management.	Complete activity records	Annual review file

Why this matters

Water, waste, purchasing and construction decisions shape emissions, resilience, costs and the quality of the campus environment.

Reserved evidence area

Verified campus water, waste or procurement photography may be added when available.

No unverified visual evidence is used in this plan.

Review cycle: activity data and environmental performance become part of routine management and annual climate reporting.



09 · NATURE AND RESILIENCE

Nature, biodiversity and a greener campus

Campus greening is both a climate response and a practical investment in shade, biodiversity, air quality, wellbeing and resilience.

01 **Protect and choose well**

Protect existing trees and prioritize native or climate-suitable species.

02 **Monitor the program**

Use plantation activities as monitored programs, not one-time events. Record survival rates, maintenance, shade coverage and biodiversity benefits.

03 **Connect green spaces**

Link green spaces with walking routes, outdoor learning and student stewardship.

04 **Build partnerships**

Coordinate plantation drives with partners such as ALPHA TUF and community organizations.

Shade

Greener spaces support comfort and resilience.

Biodiversity

Native or climate-suitable species strengthen habitat.

Stewardship

Student and community action keeps programs active.

Evidence already includes multiple student and faculty plantation activities and a campus-wide campaign involving **140 students and 25 faculty members.**

Future reporting should connect participation with survival rates, maintenance, shade coverage and biodiversity benefits.