



Grand Asian University, Sialkot

## GREEN BUILDING AND INFRASTRUCTURE POLICY

(2026)

ALIGNED WITH UNITED NATIONS  
Sustainable Development Goals 2030



### SDG 11

Sustainable Cities and Communities

Document Reference  
**GAUS-SUS-SI-011**

Version  
**Version 1.0**

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Review Cycle  
**Every 3 Years**



## 1. PURPOSE

Grand Asian University Sialkot (GAUS) recognizes that sustainable buildings and environmentally responsible infrastructure are essential components of a resilient, resource-efficient, and low-carbon campus. This Policy establishes institutional commitments for planning, design, construction, operation, renovation, and maintenance of campus infrastructure to improve environmental performance, resource efficiency, occupant well-being, and long-term sustainability.

## 2. SCOPE

This Policy applies to:

- Existing campus buildings
- New construction projects
- Building renovations and retrofits
- Academic facilities
- Administrative buildings
- Laboratories and research facilities
- Student facilities and common areas
- Outdoor infrastructure and public spaces
- Contractors, consultants, architects, engineers, and facility managers

## 3. POLICY STATEMENT

GAUS shall integrate sustainability principles into campus infrastructure planning and building management by promoting energy efficiency, water conservation, renewable energy utilization, environmental quality, green spaces, climate resilience, and sustainable resource management. All infrastructure decisions shall support environmentally responsible campus development while maintaining operational efficiency, safety, functionality, and economic viability.

## 4. OBJECTIVES

The objectives of this Policy are to:

- Improve environmental performance of campus buildings.
- Enhance energy efficiency and reduce resource consumption.
- Promote sustainable construction and renovation practices.
- Support climate change mitigation and adaptation.
- Improve indoor environmental quality.
- Increase integration of renewable energy technologies.
- Protect and enhance campus biodiversity.
- Strengthen resilience against environmental and climate risks.
- Support achievement of Sustainable Development Goals (SDGs).

## 5. GUIDING PRINCIPLES

Infrastructure planning and building management shall be guided by:

- Resource efficiency
- Climate resilience



- Environmental stewardship
- Sustainable design
- Life-cycle thinking
- Cost-effectiveness
- Health and well-being
- Continuous improvement

## **6. INSTITUTIONAL COMMITMENTS**

### **6.1 Sustainable Campus Planning**

GAUS shall:

- Integrate sustainability considerations into campus development planning.
- Preserve adequate open and green spaces.
- Promote compact and efficient land utilization.
- Support environmentally responsible infrastructure expansion.

### **6.2 Energy-Efficient Buildings**

The University shall prioritize:

- LED lighting systems
- Energy-efficient equipment
- Inverter-based HVAC systems
- Natural lighting utilization
- Energy conservation measures
- Renewable energy integration

### **6.3 Water-Efficient Infrastructure**

GAUS shall encourage:

- Water-efficient fixtures
- Leak detection and maintenance
- Water conservation technologies
- Water monitoring systems
- Sustainable landscape irrigation practices

### **6.4 Renewable Energy Integration**

Infrastructure planning shall support:

- Rooftop solar photovoltaic systems
- Solar-powered outdoor lighting
- Renewable-energy-ready infrastructure
- Expansion of clean-energy systems where feasible

### **6.5 Climate-Resilient Infrastructure**

The University shall consider:

- Extreme weather risks
- Heat stress management
- Stormwater management
- Environmental resilience
- Infrastructure adaptation measures

## **7. GREEN BUILDING ELEMENTS**

The following sustainable building elements shall be promoted where technically and financially feasible:



**Energy Efficiency**

- LED lighting
- Energy-efficient appliances
- High-efficiency HVAC systems
- Energy conservation controls
- Building energy awareness programs

**Water Efficiency**

- Water-efficient fixtures
- Water conservation technologies
- Irrigation efficiency measures
- Water monitoring systems

**Sustainable Materials**

- Durable materials
- Locally available materials where feasible
- Recyclable materials
- Environmentally responsible products

**Indoor Environmental Quality**

- Adequate ventilation
- Natural daylight access
- Thermal comfort
- Healthy indoor environments
- Occupant well-being considerations

**Green Infrastructure**

- Landscaping
- Tree plantation
- Biodiversity enhancement
- Green open spaces
- Outdoor environmental quality

**8. GAUS-SPECIFIC GREEN BUILDING IMPLEMENTATION**

The University currently implements and shall continue expanding:

**Energy and Climate Measures**

- Rooftop solar photovoltaic systems
- LED lighting systems
- Energy-efficient HVAC systems
- Energy conservation awareness programs

**Water Sustainability Measures**

- Water-efficient fixtures
- Leak monitoring and maintenance
- Water conservation campaigns

**Sustainable Transportation Measures**

- Pedestrian-friendly circulation
- Controlled traffic movement
- Bicycle parking facilities
- Green mobility initiatives

**Green Infrastructure Measures**

- Extensive campus green areas
- Plantation programs
- Biodiversity enhancement activities
- Landscape management

#### **Digital Sustainability Measures**

- Learning Management System (LMS)
- ERP-supported operations
- Digital communication systems
- Reduced paper-intensive administrative processes

### **9. GREEN BUILDING PERFORMANCE INDICATORS**

| KPI                                   | Baseline 2026 | Target 2030   |
|---------------------------------------|---------------|---------------|
| Open Space Ratio                      | 75%           | Maintain >70% |
| Water-Efficient Fixtures Coverage     | 93%           | 100%          |
| LED Lighting Coverage                 | Implemented   | 100%          |
| Renewable Energy Infrastructure       | Operational   | Expanded      |
| Buildings Using Energy-Efficient HVAC | Implemented   | Expanded      |
| Annual Tree Plantation                | 500+ Trees    | 1,000+ Trees  |
| Green Mobility Infrastructure         | Operational   | Expanded      |
| Digital Administrative Processes      | Implemented   | Enhanced      |

### **10. MONITORING AND REPORTING**

GAUS shall:

- Monitor building sustainability indicators.
- Maintain records of energy and water performance.
- Track renewable energy utilization.
- Monitor green space development.
- Evaluate infrastructure improvement initiatives.
- Publish annual sustainability performance information.

### **11. CONTRIBUTION TO SUSTAINABLE DEVELOPMENT GOALS (SDGs)**

This Policy directly contributes to:

- SDG 6 – Clean Water and Sanitation
- SDG 7 – Affordable and Clean Energy
- SDG 9 – Industry, Innovation and Infrastructure
- SDG 11 – Sustainable Cities and Communities
- SDG 12 – Responsible Consumption and Production
- SDG 13 – Climate Action
- SDG 15 – Life on Land



## 12. ALIGNMENT WITH UI GREENMETRIC

This Policy supports the following UI GreenMetric categories:

### Setting and Infrastructure (SI)

- Open space management
- Green campus development
- Sustainable infrastructure planning
- Biodiversity enhancement

### Energy and Climate Change (EC)

- Renewable energy utilization
- Energy efficiency measures
- Greenhouse gas reduction initiatives
- Climate resilience measures

### Water (WR)

- Water conservation infrastructure
- Efficient water management systems

### Transportation (TR)

- Pedestrian infrastructure
- Green mobility facilities

## 13. APPROVAL AUTHORITY

| Prepared & Reviewed by:<br>Registrar                                                                                                                                                                   | Approved by:<br>Pro – Vice Chancellor                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <br><br>Dr. Saqib Anwar Siddiqui |  |