



Beaconhouse National University

13-KM Off Thokar Niazbeg, Raiwind Road, Lahore 53700, Pakistan

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Energy Transition Strategy

Vision:

To transition BNU into a carbon-conscious, energy-efficient, and renewable-powered campus by progressively phasing out fossil fuel reliance and aligning energy operations with global climate goals.

Strategic Goals (2025–2040):

- **Renewable Energy Integration:** Achieve 80 percent integration of renewable energy across all operations by the year 2030, and reach full integration (100 percent) by 2040.
- **Energy Storage and Diesel Generator Phase-Out:** Install battery storage systems in conjunction with solar photovoltaic panels to enable the storage and use of solar energy during nighttime hours. This measure is intended to reduce, and ultimately eliminate, the use of diesel-based backup generators by 2030.
- **Energy Efficiency:** Reduce total campus energy consumption per square meter by 40 percent by 2030, using 2024 as the baseline year.

Key Strategic Pillars:

1. **Renewable Energy Integration:**
 - 1.1. Increase the installation of solar PV systems across rooftops and parking structures.
 - 1.2. Explore offsite renewable power purchase agreements (PPAs).
2. **Energy Efficiency & Retrofitting:**
 - 2.1. Conduct energy audits for all existing buildings and prioritize upgrades (LED lighting, efficient HVAC systems, thermal insulation).
 - 2.2. Implement smart meters and digital energy management platforms.
 - 2.3. Require all new construction to follow green building practices, incorporating energy-efficient upgrades such as LED lighting, high-efficiency HVAC systems, and thermal insulation.
3. **Policy & Behavior Change:**
 - 3.1. Introduce energy conservation guidelines for students and staff.
 - 3.2. Launch energy awareness campaigns tied to academic incentives.



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- 3.3. Integrate energy transition modules into curricula (architecture, environmental studies, policy).

- 4. **Governance & Monitoring:**

- 4.1. Establish an Energy Transition Taskforce within the Sustainability Core Committee with cross-departmental membership.
Publish biannual Energy Transition Reports with emissions tracking and progress metrics.
- 4.2. Leverage partnerships with national agencies and climate funds for implementation.

BNU's Energy Transition Strategy sets the foundation for a zero-emission, climate-smart campus built on innovation, equity, and accountability.