



**OFFICE OF THE DEAN, INTERNAL QUALITY ASSURANCE CELL,
KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY
DEEMED TO BE UNIVERSITY, BHUBANESWAR-24**

Date: 09/10/2023

Integrated Energy Efficiency, Sustainability, and Green Building Policy

Purpose: This integrated policy establishes a unified framework for energy efficiency, sustainable operations, and green building practices across KIIT University. It aims to reduce energy consumption, promote renewable energy adoption, and ensure that all new and renovated infrastructure adheres to eco-friendly design standards. The policy aligns with KIIT's long-term vision of achieving a carbon-neutral and environmentally responsible campus.

Objectives:

- To evaluate, monitor, and optimize energy usage across all existing and future campus facilities.
- To implement sustainable building design principles in all new constructions and renovations.
- To reduce carbon emissions through renewable energy integration and efficient resource management.
- To embed energy conservation and sustainability within institutional culture through awareness and education.

Scope: This policy applies to all KIIT University campuses, departments, buildings (existing and new), and associated facilities including hostels, research centres, laboratories, and sports complexes.

Policy Statements: -

1. Energy Management and Auditing

- Conduct regular third-party energy audits to assess performance, identify inefficiencies, and guide energy reduction goals.
- Deploy smart metering and energy management systems to monitor real-time energy use across all facilities.
- Review and refine energy targets periodically to align with emerging technologies and sustainability benchmarks.

2. Sustainable Building Design and Construction

- All new and renovated structures shall comply with green building standards such as GRIHA or IGBC certification.
- Incorporate passive design strategies—natural ventilation, daylight optimization, and thermal insulation—to reduce energy demand.
- Mandate use of sustainable and locally sourced building materials with low embodied carbon content.
- Integrate energy-efficient HVAC, lighting, and water systems in every stage of design and construction.

3. Renewable Energy Adoption

- Expand the use of rooftop and ground-mounted solar systems to power campus operations.
- Explore Power Purchase Agreements (PPAs) for sourcing renewable electricity from off-site suppliers.
- Incorporate solar water heating systems in hostels, cafeterias, and academic buildings to reduce dependence on conventional energy.

4. Building Operations, Maintenance, and Retrofitting

- Implement Building Automation Systems (BAS) for smart control of lighting, heating, cooling, and ventilation based on occupancy.
- Periodically re-commission older facilities to ensure continued efficiency and compliance with updated sustainability norms.
- Replace outdated lighting and HVAC systems with high-efficiency, Energy Star-certified alternatives.

Siddhant



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- Introduce variable speed drives (VSDs) for pumps and motors to optimize performance based on demand.
- 5. Water and Waste Efficiency**
 - Utilize low-flow fixtures, efficient water heating systems, and rainwater harvesting structures.
 - Recycle and reuse treated wastewater from STPs for landscaping and non-potable purposes.
 - Integrate waste segregation, composting, and recycling mechanisms in all buildings.
- 6. Sustainable Transportation and Mobility**
 - Promote campus mobility through electric buses, EVs, and bicycles.
 - Provide EV charging infrastructure in parking areas and encourage low-emission commuting practices.
 - Ensure new infrastructure supports pedestrian- and cyclist-friendly pathways.
- 7. Green Procurement and Investment**
 - Adopt a green procurement policy prioritizing energy-efficient products and eco-certified materials.
 - Avoid investments or partnerships with high carbon-intensive industries in training, placements, or MoUs.
 - Collaborate only with vendors and contractors adhering to sustainable practices.
- 8. Awareness, Education, and Engagement**
 - Conduct sustainability workshops, awareness campaigns, and training programs for faculty, staff, and students.
 - Introduce energy-saving competitions and student-led green initiatives to foster behavioural change.
 - Display visual reminders and guidelines promoting energy conservation and eco-friendly habits.
- 9. Monitoring, Reporting, and Review**
 - Publish annual sustainability and energy performance reports detailing progress and areas for improvement.
 - Establish data-driven benchmarks for evaluating building efficiency and renewable energy contribution.
 - Periodically review this policy to integrate advancements in green technologies and evolving environmental standards.

Governance, Implementation & Commitment:

The KIIT Energy, Green Building, and Sustainability Committee shall oversee the execution of this policy, ensuring effective implementation across all departments and facilities. Each unit will appoint an Energy and Sustainability Coordinator responsible for developing action plans, monitoring performance, and ensuring compliance with sustainability standards. KIIT Deemed to be University remains committed to leading by example in environmental stewardship, green infrastructure, and sustainable education, striving to build a resilient, energy-efficient, and future-ready campus that reflects innovation and ecological responsibility.

Siddharth
Dean, QA 9/10/23

