



St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Deemed to be University U/S 3 of the UGC Act, 1956)


AVADI, Chennai – 600 054. Tamil Nadu.

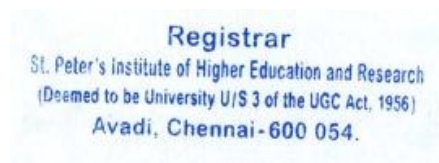
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Policy on Green Building and Renovation

Policy Created on:	01/07/2020	Approved by:  REGISTRAR
Revision 1	10/02/2024	



SDGs directly supported:

- SDG 7 Affordable and Clean Energy
- SDG 13 Climate Action

SDGs Indirectly supported SDGs

- SDG 9 Industry, Innovation and Infrastructure
- SDG 11 Sustainable Cities and Communities
- SDG 12 Responsible Consumption and Production
- SDG 4 Quality Education



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Policy on Green Building and Renovation

Introduction

SPIHER's Energy Efficiency Policy reflects the Institution's ongoing commitment to sustainable campus development, integrating modern technologies, updated regulatory frameworks, and global best practices in green construction. This policy supports SPIHER's broader goal of achieving carbon neutrality by 2035.

Purpose

To strengthen compliance with updated energy codes and sustainability benchmarks, ensuring that all new buildings, retrofits, and renovations within SPIHER meet or exceed the latest national and international energy performance standards.

Scope

Applicable to all physical infrastructure projects undertaken by SPIHER, including academic, residential, research, and administrative buildings, as well as renovation, retrofitting, and major maintenance work. It applies to partnerships with public or private construction agencies.

Policy Standards

All projects shall comply with and, where possible, exceed the following:

- ISO 50001:2018 – Energy Management Systems (replacing 2011 version)
- Energy Conservation Building Code (ECBC 2017, amended 2023)
- Bureau of Energy Efficiency (BEE)
- National Building Code (NBC 2016) – Energy Efficiency Provisions
- ASHRAE Standard 90.1-2019 for performance benchmarking



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- IGBC or GRIHA 4-Star Green Building Rating System for institutional buildings

Implementation Guidelines

Design Stage: All proposals must undergo Sustainability and Energy Efficiency Review (SEER) by the SPIHER Sustainability Committee. Incorporate Building Information Modeling (BIM) to simulate and optimize energy performance, and prioritize passive cooling, solar shading, and daylight-responsive lighting systems.

Construction Stage: Use low embodied energy materials such as fly ash bricks, recycled aggregates, and low- volatile organic compounds (VOC) paints. Ensure on-site renewable generation meets at least 20% of total building energy demand.

Post-Construction Stage: Conduct green audit tests to verify compliance with design intent. Perform third-party energy audits and report findings in SPIHER's Sustainability Report.

Governance and Accountability

The Construction section shall oversee implementation and performance tracking. The Internal Green Campus Audit Committee will review annual reports and suggest corrective measures. All tenders and contracts must explicitly mention adherence to ECBC and ISO standards.

Monitoring and Reporting

SPIHER will publish periodic Energy Performance Report outlining achievements, challenges, and energy-saving metrics. Key indicators include energy use intensity (EUI), renewable energy share, and carbon reduction per square meter.



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Policy Review

This policy will be reviewed periodically to incorporate future updates in standards and sustainability technologies. SPIHER remains committed to continuous improvement, aligning its infrastructure development with the United Nations Sustainable Development Goals (SDG 7 and SDG 13).

10.02.2024

REGISTRAR



Registrar
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