




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 High Energy Efficiency and Reduced Energy Consumption

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Registrar
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Directly supported SDGs

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

Indirectly supported SDGs

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



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Policy on High Energy Efficiency and Reduced Energy Consumption

Introduction

St. Peter's Institute of Higher Education and Research (SPIHER) affirms its long-standing commitment to sustainable infrastructure development through this Energy Efficiency Upgradation Policy. This policy integrates modern technologies, recent regulatory developments, and global best practices to ensure that SPIHER's existing buildings achieve optimal energy performance and environmental sustainability. The policy supports the Institute's broader goal of attaining carbon neutrality by 2035, in alignment with the United Nations Sustainable Development Goals (SDG 7 and SDG 13).

Purpose

This policy aims to strengthen SPIHER's initiatives for energy-efficient retrofitting, refurbishment, and modernization of all existing campus structures. It emphasizes measurable improvements in energy performance, resource optimization, and integration of renewable energy systems. The purpose is to ensure that every building upgrade contributes to a reduction in overall energy consumption, carbon footprint, and operational costs, while maintaining comfort, functionality, and academic excellence.

Scope

This policy applies to all existing buildings within SPIHER's academic, administrative, residential, and laboratory facilities. It covers renovation, retrofitting, maintenance, and modernization works undertaken directly by SPIHER or through partnerships with private contractors. The scope also includes smart energy management systems, renewable integration, and digital energy monitoring platforms.

Updated Policy Standards

- Energy Conservation Building Code (ECBC 2017, amended 2023) – Bureau of Energy Efficiency (BEE), Government of India.



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- ISO 50001:2018 – Energy Management Systems for continuous energy performance improvement.
- ASHRAE Standard 90.1-2022 for benchmarking building energy efficiency.
- National Building Code (NBC 2016) – Energy Efficiency and Sustainability Provisions.
- IGBC/GRIHA 4-Star Rating System for institutional retrofitting projects.

Implementation Framework

- Comprehensive Energy Audits: SPIHER will conduct third-party certified energy audits periodically to identify performance gaps and prioritize retrofit interventions.
- Retrofitting and Modernization: All existing structures will be upgraded using high-performance materials and low-embodied energy technologies, including advanced insulation, daylight harvesting systems, and automated building controls. Outdated electrical and HVAC systems will be replaced with equivalent energy-efficient units.
- Renewable Energy Integration: SPIHER will expand the installation of rooftop solar photovoltaic systems and hybrid energy storage systems to ensure at least 20% renewable energy contribution to the total electricity demand by 2025.
- Sustainable Construction and Material Management: Renovation works will emphasize eco-certified materials, rainwater harvesting integration, and construction waste recycling.

Governance and Accountability

The construction section will coordinate the implementation of this policy, supported by the Energy Efficiency Monitoring Cell under the SPIHER Sustainability Committee.

Performance will be evaluated through key indicators such as Energy Use Intensity (EUI), renewable energy share, and carbon emission reduction per square meter.

Monitoring, Reporting, and Review

SPIHER will conduct periodic reviews to assess progress and identify emerging technologies for adoption. Findings from the reviews will feed into



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the institution's Green and Energy audit Sustainability Report and the Green Campus 2035 Plan. The policy will undergo a major review every two years, incorporating new amendments in ECBC and ISO standards, or as mandated by national energy authorities.

Through this policy, SPIHER continues to demonstrate leadership among Higher Education Institutions in India in promoting energy-efficient modernization and climate-resilient infrastructure. The Institute's systematic approach ensures that every upgrade not only enhances energy efficiency but also contributes meaningfully to a greener, more sustainable future for the SPIHER community.

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