



SUSTAINABLE DEVELOPMENT GOAL

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**Affordable and
Clean Energy**

7.2.1 Does your university as a body have a policy in place for ensuring all renovations / new builds are following energy efficiency standards?


Yes. Our university has an institution-wide **energy-efficiency policy** ensuring all new buildings and renovations comply with recognized standards. The policy mandates adherence to **ISO 50001** for energy management, **ASHRAE 90.1** for design efficiency, and national codes such as **ECBC**. Where applicable, projects also follow **EPBD** guidelines for nearly-zero and zero-emission buildings. Major projects must achieve **LEED or BREEAM** certification to ensure verified performance. Mandatory components include energy modelling, passive design, high-efficiency systems, and renewable-energy integration. Renovations require ISO-based energy audits with measurable savings. A dedicated **Sustainability & Energy Committee** oversees compliance, commissioning, and post-occupancy checks, demonstrating strong institutional commitment to meeting sustainability goals.



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Policy on Green Building and Renovation

Policy Created on:	01/07/2015	Approved by:  REGISTRAR
Revision 1:	01/02/2020	
Revision 2:	10/02/2024	



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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
- 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.



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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.

Policy Review

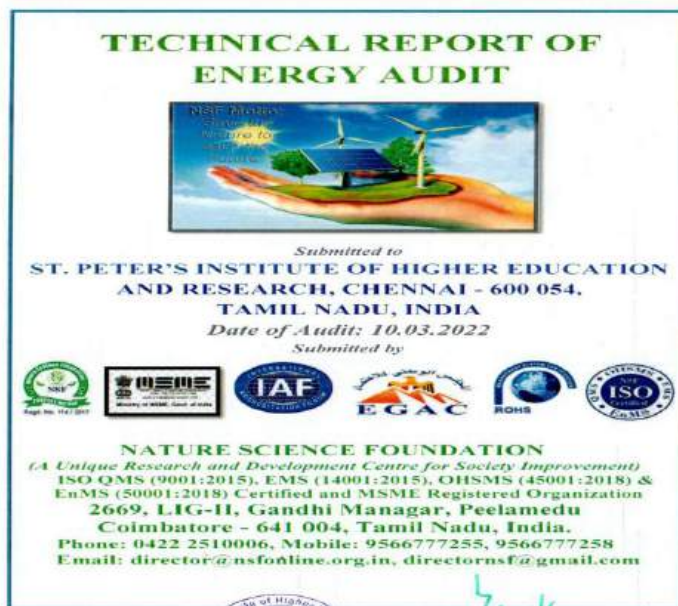
This policy will be reviewed periodically to incorporate future updates in standards and sustainability technologies. SPIHER remains committed to continuous improvement, aligning its infrastructure development with the United Nations Sustainable Development Goals (SDG 7 and SDG 13). Thus University have a policy in place for ensuring all renovations / new builds are following energy efficiency standards.

10.02.2024

REGISTRAR



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SPIHER periodically organizes Energy Audit once in every three years with Third-Party Auditors

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conservation, water management and solid waste management, restoration and afforestation programmes in Western Ghats of southern India.

In order to encourage the students, members of faculty, academicians, scientists, entrepreneurs and industrial experts those who are involving in nature protection and biodiversity conservation studies across the world, NSF tributes the deserved meritorious candidates with various awards and honours such as 'Best Faculty Award', 'Best Women Faculty', 'Best Scientist Award', 'Best Student Award', 'Best Research Scholar Award', 'Best Social Worker Award', 'Young Scientist Award', 'Life-Time Achievement Award' and 'Fellow of NSF'. These award and honours will be given to the deserved meritorious candidates during the 'Annual Meet and Award Distribution Ceremony' which will be conducted every year during the first week of January.

NSF has introduced various types of Audits such as 'Eco Audit', 'Green Audit', 'Energy Audit', 'Hygienic Audit' Water & Soil Audit, Plastic Waste Management Audit, Biomedical Waste Audit, Solid Waste Management Audit, E-Waste Management Audit, Academic & Administrative Audits including ISO certification process to Academic Institutions, R&D Organizations and Industries towards the accreditation process as well as maintaining a hygienic eco-friendly environment to the stakeholders in their campus. All audits will be conducted as per the Checklist prepared by the NSF ISO Criteria and in compliance with Government Law and Environmental Legislations including World / Indian Green Building Council and the concept of Swachh Bharath Abhiyan under Clean India Mission. Green campus and Environment Policy, Purchase Policy, Energy Policy, MoU, International Eco Club student Chapter.

Audit processes are being conducted through the certified Auditors as per the following by the NSF

Audit	Certified Auditors	Certified Auditors
Green Audit	<ul style="list-style-type: none"> IGBC - Indian Green Building Council GBCRS - Green Building Code and Green Ratings Systems GRIHA - Green Rating for Integrated Habitat Assessment 	<ul style="list-style-type: none"> Dr. S. Rajalakshmi Dr. R. Mary Josephine Dr. B. Mythili Gnanamangai Er. N. Shanmugapriyan
Energy Audit	<ul style="list-style-type: none"> BEE - Bureau of Energy Efficiency LEED - Leadership in Energy and Environmental Design CII-GreenCo - GreenCo Rating System 	<ul style="list-style-type: none"> Er. D. Dinesh kumar Er. N. Shanmugapriyan Dr. N. Balasubramanian Dr. P. Thirumoorthi Dr. G. Muruganath

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Energy Audit has been conducted by certified experts from BEE , LEED, CII-GreenCO Rating System