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For details follow the link below:

<https://sjbsap.edu.in/call-for-papers-sthala/>

IMPORTANT DATES

Submission of Abstract: **11 Nov 2024**

(Not more than 350 words)

Approval of Abstract: **09 Dec 2024**

Submission of full-length paper: **20 Jan 2025**

SUBMISSION

The full-length paper should be prepared as per the given manuscript template and mailed to:

publication@sjbsap.edu.in

Contact Ph no- +919880131235

(Prof. Chendira T Manjunath)

SUBMISSION FORMAT

Authors are required to prepare the full-length paper as per the prescribed manuscript template.

The full-length paper shall be restricted to FIVE pages only including references.

Sthala

A JOURNAL OF ARCHITECTURE, INTERIOR DESIGN,
URBAN DESIGN AND PLANNING, e-ISSN no 2582-9491
By SJB School of Architecture & Planning, Bengaluru, India

CALL FOR PAPERS-2024

We take the pleasure to invite research papers manuscript for our annual scholarly research journal "STHALA", a journal publication of SJB School of Architecture and Planning, e-ISSN #2582-9491, Bengaluru. This journal is theme based, with the upcoming issue dedicated to "TOWARDS CARBON NEUTRALITY IN CONSTRUCTION: STRATEGIES AND SOLUTIONS".

Main theme can be interpreted as per these sub themes and in any other ways as per author's understanding,

The construction industry plays a critical role in climate change mitigation, as it is a significant emitter of greenhouse gases both directly through its activities and supply chains and indirectly through the operation of the assets it creates. The building sector is responsible for 40% of the global energy consumption and contributed a quarter of the global total CO2 emissions. Furthermore, CO2 emissions from buildings have increased by an average of 2.7% per year from 1999 to 2004, and the building sector in India is expected to see a 50% increase in energy demand between 2010 and 2050.

To fulfil India's commitment to reducing its emission intensity by 40% after COP26, it is crucial to achieve carbon neutrality in the building sector. To deliver the Paris Agreement, it has been suggested that all new building construction should be carbon-negative or carbon-neutral after 2030, which will require substantial efforts to mitigate all greenhouse gas emissions associated with the construction of new assets and significant growth in the use of biogenic building materials.

In the Paris Agreement India has committed to an Intended Nationally Determined Contributions target of achieving 40% of its total electricity generation from non-fossil fuel sources by 2030.

Who can participate?

Professionals, Students and anyone with the knowledge on the topics.

For previous publication follow the link

<https://sjbsap.edu.in/sthala-a-journal-of-architecture-interior-design-urban-design-and-planning-volume-3/>



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CALL FOR PAPERS-2024

The Editorial Board of "STHALA"- A journal of Architecture, Interior Design, Urban Design, and Planning (e-ISSN no 2582-949), invites research papers from practicing professionals, researchers, academicians, and students to submit original works for the upcoming issue dedicated to "TOWARDS CARBON NEUTRALITY IN CONSTRUCTION: STRATEGIES AND SOLUTIONS".

Sub Themes-

- **A Comprehensive Approach to Reduce Embodied Carbon in the Built Environment:** This sub-theme explores the critical strategies needed to reduce embodied carbon in the built environment, addressing both embodied and operational energy, as well as their respective carbon impacts. By focusing on both embodied and operational aspects, the paper can explore a holistic approach to achieving significant carbon reductions in construction & during project management, contributing to broader sustainability and climate goals. Also, At the policy level, the Government of India has undertaken several significant initiatives aimed at carbon reduction in the building sector.

- **Architectural and Planning Strategies for Low Energy Consumption:** This sub-theme examines architectural and planning strategies that prioritize low energy consumption through the principles of passive architecture. Key elements include building orientation, building form, and the strategic placement of openings to enhance airflow and daylighting. By integrating the passive design strategies, this sub-theme aims to highlight how thoughtful architectural planning can significantly lower a building's energy demand, contributing to sustainable and energy-efficient built environments.

- **Impact of Building Materials on Embodied Carbon:** Embodied Carbon Value for Various Materials, Renewable and Non-Renewable Materials. Strategies for Achieving Carbon Neutrality in Building Construction: Renewable Energy Utilization, Circular Economy Principles, Material Efficiency, and Optimization of Construction Processes. This sub-theme focuses on the significant impact that building materials have on embodied carbon, exploring the carbon values associated with various materials, both renewable and non-renewable.

- **LCA and the scientific principles of achieving carbon neutral in buildings:** Critical role of Life Cycle Assessment (LCA) in evaluating the environmental impact of buildings throughout their entire lifecycle, from material extraction to demolition. By applying scientific principles, LCA helps in quantifying both embodied and operational carbon emissions, providing a comprehensive framework for developing strategies to achieve carbon neutrality. This sub-theme delves into methodologies for minimizing carbon footprints through sustainable material selection, energy-efficient design, and innovative construction practices, ultimately guiding the path towards carbon-neutral buildings.

- **Achieving Carbon Neutrality in Buildings through Simulation tools and Software:** This sub-theme explores the integration of software simulation tools like Building Information Modeling (BIM) and other advanced simulation software such as Design Builder, Autodesk Insight, Ladybug Tools, Climate Consultant etc. Crucial tools in the pursuit of carbon neutrality in buildings. The paper can highlight for example how BIM allows for the precise modelling and analysis of a building's lifecycle, enabling architects and engineers to visualize and optimize energy use, material selection, and overall environmental impact from the earliest design stages. The sub-theme will cover how these technologies work together to create buildings that not only meet current sustainability standards but are also equipped to achieve carbon neutrality, thereby contributing to global climate goals.

- **Decarbonization Strategies Embedded in Indian Green Building Rating Frameworks:** The Indian green building rating systems, notably addresses decarbonization by evaluating buildings on various criteria such as site conditions, energy optimization, waste management, and water management as a part of their assessment criteria. The papers under this sub-theme can explore evaluation of some popular Indian Green Building Ratings like GRIHA, IGBC, LEED India etc on emissions reduction and carbon accounting. A critical analysis of these criteria and its compliance for driving Low-Carbon transitions across project can be documented for the paper using an example of a project. The paper can explore critical analysis of any of the assessment criteria that challenges or create opportunities in aligning Indian green building certifications with global decarbonization targets.

NOTE TO AUTHORS • Submission of a manuscript is considered subject to the understanding that the manuscript is original and has not been published before in any form and is not being considered for publication elsewhere. Author/s is/are solely responsible for originality of content and views expressed in the paper. Author/s should submit full length paper by stated submission date. • We invite authors across the world and from a wide range of disciplines, to submit research articles that may be connected with the theme & sub themes. • Download the Journal Volume 3- from 2023 on this link - <https://sjbsap.edu.in/sthala-a-journal-of-architecture-interior-design-urban-design-and-planning-volume-3/>