



ASME Journal of Engineering for Sustainable Buildings and Cities

CALL FOR PAPERS Special Issue on Advanced Energy Systems for Buildings and Cities in the Tropics

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CALL FOR PAPERS

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Special Issue on Advanced Energy Systems for Buildings and Cities in the Tropics

Tropical regions present some of the highest concentrations of urbanized areas of the world. Moreover, tropical areas cover large parts of the Global South (Southeast Asia, Central Africa, Central and South America), including portions of densely populated countries like China, India, and Brazil. Megalopolises such as Canton, Rio de Janeiro, Jakarta, Singapore, Bangkok, Kuala Lumpur, Lagos, Calcutta, and Manila are located in this type of climate. Tropical climates, both hot and humid, pose an increasing impact on energy loads for cooling and dehumidification in any building typology. This Special Issue seeks contributions from both the academic and professional sectors to address the challenge of cooling and managing buildings and cities in the tropics, considering the global warming environment.

The Special Issue will focus on interdisciplinary research in this field and will provide a venue for research findings from a variety of disciplinary perspectives.

Topic Areas

- Integration of renewable energy systems in buildings
- Building performance simulation and certification
- High efficiency cooling systems
- Ground and air-based heat pump systems
- City and district cooling
- Urban climate and heat island mitigation in the tropics
- Refrigerants with low Global Warming Potential (GWP)
- Energy optimization in buildings in tropical regions
- Indoor air quality technologies
- Materials and performance for building envelopes in tropical regions

Publication Target Dates

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|--------------------------------|--------------------------|
| Paper submission deadline | December 15, 2021 |
| Initial review completed | March 31, 2022 |
| Special Issue publication date | May 2022 |

Submission Instructions

Papers should be submitted electronically to the journal at journaltool.asme.org. If you already have an account, log in as author and select **Submit Paper** at the bottom of the page. If you do not have an account, select **Submissions** and follow the steps. In either case, at the **Paper Submittal** page, select the [ASME Journal of Engineering for Sustainable Buildings and Cities](#) and then select the Special Issue **Advanced Energy Systems for Buildings and Cities in the Tropics**.

Papers received after the deadline or papers not selected for inclusion in the Special Issue may be accepted for publication in a regular issue.

Guest Editors

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