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## **Studies on Role of Variables and Building Systems in designing a low carbon building and their benchmarking**

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### **ABSTRACT:**

In view of the Paris agreement at the United Nations Framework Convention on Climate Change, all the member nations have to contribute to reduce the global warming to well below 2°C and pursue effort to limit to 1.5°C. India has made a commitment to meet its 40 % of power requirements through non-fossil fuel sources. This brings huge opportunity for reduction in carbon emissions from buildings. This research paper presents studies on role of variables and building systems in designing a low carbon building

**Key words:** Smart grid, Climate Change, Built environment, Contemporary Human settlements, Energy Efficient buildings, Thermal comfort, Green Buildings Zero Energy buildings.

**Abbreviations:** NZEB, Net Zero Energy Building, ASHRAE, American Society of Heating, Refrigeration and Air-conditioning.

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