

## The role of green architecture strategies in achieving zero energy buildings

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### **Abstract:**

The current research aims to identify the role of green architecture strategies in achieving zero-energy buildings. The current research also seeks to identify green architecture strategies used to achieve zero-energy buildings. The current research also tries to identify the basic principles used in the design of zero-energy buildings. This is in addition to identifying a set of suggested recommendations to improve the performance of zero-energy buildings. To achieve this, the research relied on the qualitative approach in presenting the research variables. We have relied on a group of literature and previous studies that presented the same variables as the current research. The research concluded that there are many problems related to the environment and the future of architecture in most countries of the world, where the consumer lifestyle led to the existence of many environmental problems related to energy, such as the problem of pollution and the energy problem. In addition, green architecture contributes to conserving energy, rationalizing its consumption, improving the consumption of natural resources optimally, restoring human connection with nature, achieving a balance between the production and consumption of resources, in addition to working to ensure the rights of future generations to the available natural resources. The research also concluded that green architecture strategies contribute to enhancing the ability of buildings to adapt to different climatic conditions and to ensure that the internal environment of the building is suitable for all uses throughout the year. The study recommended the need to encourage investors in the Arab world to move towards implementing zero-energy buildings. The research also concluded the importance of developing a special code for designing zero-energy buildings, so that designers adhere to it during design and implementation.

### **Keywords:**

Principles, environment problem, energy problem, rationalization, resources, adaptation

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