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## INVESTIGATING THE EFFICIENCY OF ENERGY SOURCES MANAGEMENT IN SUSTAINABLE ARCHITECTURE

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### ABSTRACT

Sustainable architecture has important consequences such as eliminating the negative effects of the building, the use of environmentally friendly materials, avoiding damage to the land, paying attention to the ecological character of the region and climatic properties, reducing the use of non-renewable resources and achieving the best level of quality of life will follow. It is impossible to manage energy consumption without considering public education at different levels of society; because what has been extracted from energy sources with effort and effort will be wasted if manpower and people do not know its value. Replacing non-renewable energy with renewable energy requires public education and the dissemination of public culture. Therefore, the use of climate design principles (energy sustainability approach) in its design seems useful and desirable; because in the design of buildings, efforts have been made to use natural energy sources. The research method in this research is a descriptive-analytical research method that according to the available sources, such as magazines, the Internet, etc., is reviewed and analyzed, and concludes that examines and describes the characteristics of climatic architecture. Techniques and tools for collecting research information are based on documentary methods. Information is collected from books, architectural articles, observations, and pictures. The results show that achieving sustainable architecture requires access to sustainable energy sources that non-renewable energy and fossil fuels are not suitable sources in this regard due to their unsustainability. But renewable energy, if consumed, will remain for future generations and, unlike fossil fuels, will not lead to pollution and global warming. Undoubtedly, by replacing renewable energies with non-renewable energies, the steps taken towards sustainable development will become stronger and stronger.

**Keywords:** energy sources management, sustainable architecture, renewable energy, energy sustainability approach