

Renewable Energy Systems Meeting The Future Needs: Review

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Abstract

Earth is a fascinating planet in the solar system. However, as the global population continues to flourish and expand, there must be a clear understanding of the major negative effects of having a population that continues to grow. With a global population, currently close to eight billion human beings, many individuals around the world are already feeling the heat of the lack of available resources. Lack of adequate resources like health, education, and housing can potentially lead to underdevelopment of the human beings. Presently, engineering and technologies to harness renewable energy from the earth's natural systems which are available.

This literature review will summarize the varied renewable energy approaches developed by the mankind that can potentially be applied in the United States. Sustainability factors associated with the renewable techniques is never considered by researchers in regards to energy generation methods. The paper will describe the analysis of the relative contribution of different renewable energy techniques to the environmental and economic sustainability of the approach. The environmental sustainability and economy will be analyzed quantifiably to see if they go hand in hand or are inversely proportional as a general trend. Trend plots will be used to convey the findings.

The conclusion will present the relatively better techniques to achieve the same sustainability objectives for the United States. Typical United States scenario of the renewable energy is scientifically developed and considered in the current study. Further, the effects of increasing human population on the resource depletion is investigated by critically reviewing the relevant literature.

Keywords

Renewable Energy, Solar System, Wind Powered Energy, Renewable in Future, Renewable Energy with Civil Engineering.