**Renewable Energy: Performance and Prospects**

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**Abstract**

Execution of every scientific and technical endeavor requires consumption of fossil fuels which ultimately cause disastrous and dire consequences in the guise of climate change or global warming etc. The term global warming or climate change is no more restricted to the dialectic of the academicians, scientists, ecologists and environmentalists; its predicaments are now being talked about and felt in every hearth and home. For sustainable development, the time has ripened to establish a rapport between energy and environment which is now practically impossible without harnessing of renewable energy. The sustainable and renewable energy such as wind and solar energy cause zero greenhouse gases and thus, offsets the indispensability of fossil fuels, which are solely responsible for abrupt climate change, global warming and hazardous pollution. The creation of employment, cost effective production and other economic benefits further adds a crown to its glory. The present article shall debate and discuss various sources of renewable energy like solar, geothermal, hydropower, ocean, bio energies, etc. It shall also enumerate the efforts that have already been made in producing the renewable energy hitherto and the efforts being made for replacing the fossil fuels into total clean, green and renewable energy in the years to come.

**Keywords:** Sustainable development, science, technology, nature, environment, fossil fuels, greenhouse gases, climate change, global warming, clean, green and renewable energy.

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