



# A Review on Different Renewable Energy Resources

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**ABSTRACT:** The world is fast becoming a global village due to the increasing daily requirement of energy by all population across the world while the earth in its form cannot change. The need for energy and its related services to satisfy human social and economic development, welfare and health is increasing. Returning to renewables to help mitigate climate change is an excellent approach which needs to be sustainable in order to meet energy demand of future generations. Renewable technologies are technically viable and economically attractive; traditional energy technology receives many investment dollars. The use of renewable energy resources is growing gradually and its requirement is also increasing as compared with the conventional energy sources from corner to corner of the world. The use of these energies can accomplish the added energy requirement and the research on this is in development. The renewable energy types considered include solar, wind, geothermal, bio-energy and waste derived energy, ocean thermal energy, tidal, wave and hydraulic. This paper provides a brief knowledge about different renewable energy resources. It thus, becomes a need to explore these sources more efficiently, so that we can maximize its use for different applications worldwide.

**Keywords—** Renewable Energy Resources, Solar Energy, Wind Energy, Hydrothermal Liquefaction

## 1. INTRODUCTION

As world's population is increasing day by day, therefore the utilization of energy is increasing in a hurry. The employ of renewable energy resources seems to be a huge movement by which the extra energy can be generated as generation of energy becomes an important concern for the world [1]. Renewable energy resources can be a alternative option for conventional energy resources as it substitute conventional fuels [2]. Basically, the most important aspect for increasing renewable energies is to pilot a number of positive results like controlling the greenhouse effect and climate change [3, 4]. The status for electricity generation of various renewable energy types, such as solar, wind, hydraulic, biomass, ocean and geothermal, is frequently reported and the development potentials of renewable energies are often investigated [5, 6]. The development of