Diversifying the Energy Mix with Increased Share of Renewable and Inexhaustible Energy to Mitigate Climate Change

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ABSTRACT

As a developing country that is frequently subjected to climatic fluctuations, it is important to make necessary adaptive measures to build resilience to face adverse impacts that arise mainly due to the overconsumption of exhaustible energy. Developing the country's capacity to shift the energy profile into sustainable renewable energy consumption that impacts minimum on climate change is recognized as the main research objective Then the paper to what extent the policies should be designed to improve the share of renewable energy resources to meet multidimensional research gaps which lead to mitigate climatic change. Participatory action research approach incorporated with an initial brainstorming session is utilized as the research framework. The study addressed main policy gaps: absence of proper coordination, interlink between international organizations, scarcity of resources, and non-existence of long-term plan. The study suggested that some policies based on generalized results include: implementation of the proper database system, initiating a number of alternatives for maximizing the use of renewable energies and modification and amendments for strengthening the legal framework. It is further recommended to develop indigenous energy in both electricity and thermal energy supplies for diversifying and mixing energy consumption patterns to mitigate climate change.

Keywords: Renewable Energy, Climate Change, Diversify, Policy