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Ghana is among the countries in West Africa which is known for stability in terms of peace and politics. Lately, Ghana has been battling unimpressive economic growth and the country has been entrenched in energy crisis characterized by power cuts, erratic and embarrassing power shortages. In spite of attaining electrification rate of more than 80%, about 60% of population in the rural areas are not accessing the electricity services [4, 5].

Ghana Government has established its energy sector based on the definition of key targets. The intention was to provide electricity for every citizen before the year 2020 ends. The government's objective is assuring each sector of the economy to benefit from high quality energy service and to produce surplus power that can be exported to the surrounding countries. Renewable energy sources are considered as a better alternative source of energy security in Ghana and away of managing the environment to alleviate the negative effects resulting from climate change [6, 7].

Content analysis was used in analysing the information that was obtained from the articles by quantifying and analysing the relationships and meaning of the key terms. Later, a thematic analysis was used in identification of common themes, trends, and patterns across the literature. The process entailed categorization of findings based on thematic areas. The aim of this study was answered through the analysed information. The synthesized findings were critically evaluated to identify gaps, inconsistencies, and areas requiring further research.

According to Kumi [13] energy consumption in Ghana has grown by 50%, resulting in major issues in distribution of energy that cost an estimated \$2.1 million in productivity of the country per day. Moreover, relying too much on thermal power sources of electricity, in addition to a flawed pricing mechanism that prevents utilities from recouping the cost of generating power, were cited as the issues affecting energy supply. Renewable energy therefore, is employed in addressing Ghana's challenges in energy sector.



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