

Is solar energy a viable option in Ghana?

Ghana is a fertile ground for expanding renewable energy sector because of the abundance of the natural resources, geographical conditions and government policies which are favourable. The country is enjoying ample sunlight in the entire year and therefore solar energy is an option that is highly viable.

How has Ghana established its energy sector?

The results show that the Ghana Government has established its energy sector based on the definition of the key targets in line with the world trend. Ghana is equipped with a vast quantity of renewable energy potentials which include hydropower, solar, wind, and bioenergy.

What are the challenges faced in the energy sector in Ghana?

Challenges faced in the energy sector in Ghana are the same as the other countries in sub-Saharan Africa. The demand for energy in sub-Saharan Africa countries has resulted from rising population.

What is the energy mix in Ghana?

The generation mix was dominated by 14 thermal plants that were installed, which accounts for almost 60% of the energy generation mix in Ghana. As at 2022, the shares of hydro and renewable plants were 39.9% and 0.3% respectively [26,27,28,29]. Energy mix in Ghana is relatively simple, though it has challenges.

Does Ghana have an energy crisis?

Currently, the economic growth of Ghana has not been impressive and the country is entrenched in an energy crisis. Despite the country's achieving an electrification rate of 80%, still 60% of the rural population have no connection to the electricity service.

What is the solar energy potential of Ghana?

Ghana's geographical position is within the tropic with a solar radiation range from 4.0 to 6.5 kWh/m²/day, with an annual period of sunlight from 1800 to 3000 h. Highest solar radiation is received at the northern part of the country. The potential of solar energy is approximated to be almost 35 EJ (Exajoules).

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Our directors and management bring onboard experience from the upstream and midstream sector of the Ghana oil and gas industry as well as the power generation sector having worked with renowned companies like triumph power ...

While new discoveries in 2021 highlight the country's hydrocarbons potential, Ghana is also gearing up to deliver more sustainable energy over the long term, in accordance with goals outlined at the 2021 UN Climate Change Conference.

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