

What is Benin's current energy situation?

This section provides information on Benin's current energy situation with energy demand-and-supply scenarios. According to the International Renewable Energy Agency (IRENA), 41% of Benin's population currently have access to electricity.

How can bioenergy contribute to the energy sector in Benin?

In addition, the Vossa hydroelectric power plant of 60.2 MW is to be built with an annual production capacity of 188.2 GWh. An additional hydroelectric plant is planned to be installed in Bétérou to increase the national electricity production in Benin . Bioenergy can also play a crucial role in the energy sector in Benin.

Which institutions are working to provide access to affordable energy in Benin?

Several institutional frameworks in the energy sector in Benin are working to provide access to affordable energy in the country. The ME is the biggest institution of the energy sector, responsible for the management of the energy sector and in charge of the implementation of RE projects.

How affordable is electricity in Benin?

In 2019, in terms of the affordability of electricity for consumers, Benin obtained a score of 81 out of 100 compared with the average value, which is 77.25 out of 100 . The government of Benin plans to continue its efforts to make electricity accessible to the population and ensure energy self-sufficiency .

Does Benin have a good energy sector?

This paper analyzed the energy sector in the Republic of Benin, a developing country in West Africa that has many problems in meeting the needs of its population for almost all sectors over the last decade, specifically, between 2010 and 2018, in terms of production, consumption, and imports.

Are there empirical studies on Benin's energy situation?

However, no empirical studies were found in literature on studies of the Republic of Benin's energy situation, and so more research and studies focusing on Benin are needed. Table 1. Summary of literature on the subject. 3. Benin's energy situation 3.1. Energy consumption

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Given the aforementioned scenario and the lack of studies on the energy crisis in Benin, this study seeks to detail the national energy situation in Benin over the last decade, using critical analysis by taking production, consumption, and imports into account.

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The EnergyPLAN energy model is used to analyze the energy, environmental, and economic impacts of various energy strategies in the Benin Republic. In addition, the study also proposed a mathematical model to estimate electricity generation from the conversion of municipal solid waste (MSW) into methane (CH₄) in Benin.

This study aims to forecast the energy demand for Benin while reducing greenhouse gas (GHG) emissions and propose alternative solutions to clean energy deployment barriers. The Low Emissions Analysis Platform (LEAP) is used to explore the future energy demand for Benin and associated GHG emissions.

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These included reducing cumulative greenhouse gas emissions in the energy sector by 11.51% from 2021 to 2030 relative to the status quo; promoting energy efficiency and energy utilization by providing improved cooking stoves to 140 000 new households; promoting access to 275 000 new families to home gas cooking equipment: subsidizing the ...

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Bold actions are needed to promote sustainable and inclusive growth, seizing opportunities for greater forest and land management, resilient urban infrastructure, and energy transition to achieve universal access to electricity.

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