

How can Benin increase local production?

However, the government of Benin is making serious efforts to increase local production through national projects, specifically the Solar Energy Promotion Project (PROVES) and the Renewable Energy Development Program (PRODERE). The principal RE sources in Benin are hydro energy, biomass energy, wind energy and solar energy.

Does wind energy contribute to the electrification of Benin?

Although hydroelectricity, biomass and especially PV technologies play an increasingly important role in the electrification of Benin, recent studies have shown that wind energy technologies can also contribute. Non-electrified rural and peri-urban localities have favourable wind potential in coastal Benin.

Why is Benin reliant on electricity imports?

Benin is reliant on electricity imports for a significant share of its energy supply. Reform programmes, including plans for electrification, have been put in place in the country, where only 30% of the population had access to electricity in 2017.

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 Benin to increase the national electricity production in Benin. Bioenergy can also play a crucial role in the energy sector in Benin.

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.

What type of energy is used in Benin?

The evolution of the electrical mix of Benin indicates that, in 2020, natural gas was the first form of energy used to produce electrical energy, representing a proportion of 71.63%. Solar photovoltaic (PV) accounts for 0.30% of the mix by form of energy compared with 1.36% in 2016, as shown in Fig. 3.

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Benin is one of the least-developed countries in West Africa, struggling to satisfy the energy needs of its 12.2 million inhabitants [1]. With a total surface area of 114 763 km², the country is endowed with a high potential for energy resources [2]. However, almost 59% of Benin's population currently lacks access to electricity [3] and



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the country is heavily dependent on ...

GPTEch, in partnership with Planet Partnerships, provided expert advice and technical oversight to the MCC for the Benin Off-Grid Clean Energy Facility (OCEF). The GPTEch team provided requisite expertise in off-grid technologies and infrastructure, environmental and social performance, health and safety, gender and social inclusion, grants ...

The Benin energy sector faces serious challenges, including an unfavorable energy mix with regular power shortages, erratic power outages, reliance on electricity imports, and dependence on ...

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taux d'accès aux technologies de cuisson propre de 9 % (5 % pour les zones rurales), l'énergie reste une priorité pour le Gouvernement béninois. Ainsi, EnDev Benin accompagne le Gouvernement pour relever ces défis via ses deux composantes : l'énergie solaire et l'énergie de cuisson. Approche

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developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of ...

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In this article, we summarize various sources and potential of renewable energy available in Benin. We then analyze the problems undermining the policy of developing renewable energy ...

In this study, multicriteria decision-making (MCDM) methods are used to prioritize alternatives such as solar photovoltaic (PV), concentrated solar power (CSP), wind energy, hydropower, and ...

Energy use per PPP GDP is the kilogram of oil equivalent of energy use per constant PPP GDP. Energy use refers to use of primary energy before transformation to other end-use fuels, which is equal to indigenous production plus imports and stock changes, minus exports and fuels supplied to ships and aircraft engaged in international transport.

The Benin energy sector faces serious challenges, including an unfavorable energy mix with regular power shortages, erratic power outages, reliance on electricity imports, and dependence on traditional cooking stoves. ... Sustainable Energy Technologies and Assessments, Volume 46, 2021, Article 101292. Muhammad Shahid, ..., Maarten Arentsen.

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Country-specific capacity factors for solar PV, wind and hydropower technologies for Benin were sourced from Renewables Ninja and the PLEXOS-World 2015 Model Dataset ...

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This section provides information on Benin's current energy situation with energy demand-and-supply scenarios. 1.1 Current energy situation of Benin According to the International ...

The Benin energy sector faces serious challenges, including an unfavorable energy mix with regular power shortages, erratic power outages, reliance on electricity imports, and...

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Long-term energy demand modeling and optimal evaluation of solutions to renewable energy deployment barriers in Benin: A LEAP-MCDM approach December 2024 Energy Reports 12:1888-1904

Despite the abundant energy resources available in Benin (Adamon et al., 2020), the power sector is still subject to regular power cuts and recurrent electricity crises (Akpahou, Odoi-yorke, et al., 2023). Most of the country's electricity supply is imported from Ghana, Nigeria, and Togo (Mensah et al., 2022). However, the country's considerable ...

Energy Situation. Benin's total energy consumption in 2009 was 3,475 ktoe (World Bank, 2009). The per capita energy consumption in the same year was 0.404 toe. This is about half of the average per capita energy consumption for Sub-Sahara African countries, and less than a quarter of the world average (World Bank, 2009).

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