

The lifespan of Benin s energy storage photovoltaic power generation





Overview

Will Benin provide 100% electricity to its community by 2050?

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. This shows that the government must make more effort to provide 100% electricity access to its community by 2050 . Electricity mix of Benin from 2016 to 2020 .

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.

How much electricity does Benin need?

Benin belongs to several institutions like West Africa (WA), the African Union (AU), the World Trade Organization (WTO), ECOWAS, and WAEMU, and has a total installed energy capacity at 349 MW, with estimated electricity needs at 600 MW, given rapidly growing electricity demand, according to the West African Development Bank (BOAD, 2019) .

Does Benin have a green energy potential?

Benin has also joined this dynamic by considerably increasing its green energy production efforts in recent years. The country has a huge undeveloped renewable-energy (RE) potential that can contribute considerably to its national energy production capacity. This paper summarizes the current RE



situation in Benin and examines its future prospects.

How much natural gas does Benin produce a year?

Meanwhile, Benin's natural gas production corresponded to 29.8%, and 0.9%, of Togo's (210 GWh), and Ivory Coast's (7025.7 GWh), total generation, respectively. Fig. 15 shows electricity production per energy source per country in 2018 in WAEMU. Fig. 15. Annual Average Generated Electricity (GWh) per source per WAEMU country in 2018.



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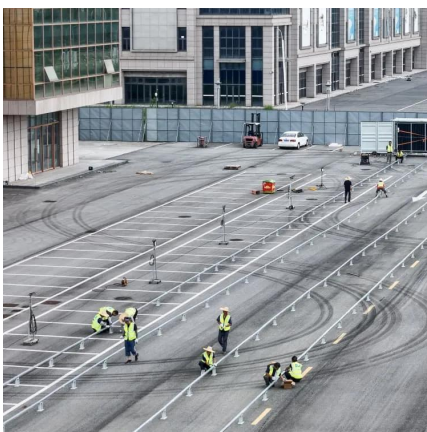


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