

ContainerPower Energy Solutions

Benin Base Station Wind Power Supply Communication



Overview

Electricity demand in Benin has continuously increased due to rapid population growth, and demand is expected to increase further in coming years. The Benin government wants to increase its renewable ene.

Why is Benin importing more electricity from neighboring countries?

In recent decades, Benin has experienced several energy crises that have forced it to import more electricity from neighboring countries like Ivory Coast, Ghana, and Nigeria, via the West African Power Pool (WAPP), to meet demand for its population. The worst crisis occurred from 2007 to 2013.

How much energy does Benin use?

Benin imports a lot of its electricity, estimated at 1088 GWh in 2016 (CIA, 2016) . Its own energy production for that same year was around 335 GWh, showing its high dependence on imported energy.

Is Benin an energy importer?

Fig. 8 shows that Benin is an energy importer, and very vulnerable in terms of its electricity supplies. Since 1990, between 75% and 99% of its electricity supply was imported, and imports grew sharply from 2007 to 2013, given exponential demand and little national production.

Is Benin energy dependent?

In 2015, Benin was energy and electrically dependent at 41.3% and 76%, respectively, which worsened given energy imports at 1319.45 GWh in 2018 relative to 1202.15 GWh in 2017, an 8.07% increase due to a 76.80% drop in national electricity production in this period.

Does Benin have a hydroelectric potential?

According to a study by Ref. , Benin has considerable hydroelectric potential for developing large, medium, small, and micro-hydroelectric plants in the Bétérou and Olougbé regions, for example, with estimated generation capacities at 70 GWh and 72 GWh, respectively.

How many hydropower plants are there in Benin?

The Ouémé River, the largest river in Benin, was estimated to be able to house around ten hydropower plants with power ratings ranging between 10 MW and 160 MW.

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