

ContainerPower Energy Solutions

Benin s solar power generation and energy storage system 20



GEL Battery



Lithium Battery



Container storage system



Power Battery



Overview

Benin has set ambitious renewable energy targets as part of its commitment to sustainability, aiming to generate at least 20% of its energy from renewable sources by 2025. 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.

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.

Which renewable resources are available in Benin?

Of all the available renewable resources in Benin, solar has the greatest potential, and is the easiest to implement for solving problems in the Republic of Benin.

How much electricity is produced by biomass in Benin?

Electricity production using biomass in Benin was zero, similar to other WAEMU member countries, except for the Ivory Coast and Burkina Faso, which accounted for 53.4% and 46.6% of all electricity production (114.5 GWh), using biomass in 2018, respectively.

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 biogas generate in Benin?

A study by the literature , on energy generation from biogas in Benin, considered ten municipalities, and showed energy gains at 24.1 GWh/year for the country, with estimated annual benefits at 3 million dollars.

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