

Electricity generation sierra leone



Overview

Sierra Leone's electricity mix includes 86% Hydropower, 10% Solar and 5% Unspecified Fossil Fuels. Low-carbon generation peaked in 2019. Total installed generation capacity is under 250 MW of which between 100 MW and 150MW is available at any given time, with energy consumption dominated by fuelwood and petroleum imports. The energy mix is primarily hydropower and thermal sources, with the Bumbuna I Hydroelectric Plant as a key. In Sierra Leone, electricity consumption remains remarkably low compared to global averages, with the country utilizing just around 25 kWh per person in 2023. Its state-owned electricity distribution company, EDSA, is mired in debt and has a long history of operating losses, both technical and commercial due to an old and poorly-maintained distribution network, illegal connections, and non-payment from customers, and these losses are compounded by. Sierra Leone's energy infrastructure is emerging from the devastation of a civil war that lasted from 1991 to 2002, which significantly damaged its electricity networks and power stations. Today, the country faces a critical energy crisis, characterized by low modern energy consumption rates and a. What share of Sierra Leone's population has access to electricity?

Electricity is a good that adds massive value to modern life: from having light at night; to washing clothes; cooking meals; running machinery; or connecting with people across the world. Petrol or diesel generators are often used because most of the regions lack a stable public power supply. Kerosene, battery lamps or candles are.

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Sierra Leone Energy Situation

Very few people have access to electricity in Sierra Leone: Approximately 10% to 12% of the urban population and only around 2% of the rural population. Petrol or diesel generators are often used ...

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Sierra Leone's power infrastructure - revised October 2025

Power generation data was drawn from our African Energy Live Data platform, which contains project level detail on power plants and projects across Africa. The map is presented as a ...



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Sierra Leone's energy infrastructure

By 2022, Sierra Leone had an installed electricity generation capacity of 138,000 kilowatt hours. Electricity production is predominantly dependent on hydropower, which, in 2022, accounted for ...



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Sierra Leone

Electricity access remains limited, with only 30% of the population connected nationally and less than 5% in rural areas. Supply is unreliable, tariffs are high, and the country relies heavily ...

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Sierra Leone

In Sierra Leone, the need for a national strategy for bioenergy is gaining recognition and hydropower expansion projects are under consideration. Less than one-third of the population has access to ...

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FORTHE REPUBLIC OF SIERRA LEONE

Declaration of Commitment conomic growth and create jobs. To achieve this, the Government has set the followin Ø Increase access to energy from 36% to 78% of the population by connecting at least ...

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Sierra Leone , Africa Energy Portal

Electricity generation and access remains low with only 105 MW of



installed generating capacity and 15% of the population connected to the grid. This reflects limited and dilapidated power infrastructure ...

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Sierra Leone Electricity Generation Mix 2023 , Low ...

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Sierra Leone

How much electricity does Sierra Leone generate each year? Like total energy, the amount of electricity a country generates in total is largely reflected by population size, as well as the average income of ...

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