



Suriname decentralized power generation

How much electricity does Suriname generate?

As of 2020, Suriname's installed electricity capacity was 501 MW, with fossil fuels accounting for nearly 62% and renewables (mostly hydro power) making up the remainder. In 2020, Suriname generated 2.4 TWh of electricity. As of 2018, the peak electrical demand was 215.4 MW and 97% of the population had access to electricity.

Who is responsible for energy projects in Suriname?

The Ministry of Natural Resources is responsible for the government's energy programs and initiatives. Suriname's permitting process is detailed in a report by the Inter-American Development Bank, ESIA (Environmental and Social Impact Assessment for Energy Infrastructure Projects).

Why did Suriname's Electricity rate change so much?

This near-zero change can be attributed to a gradual tariff raise in the rate schedule for electricity by the Surinamese government in 2015-2016, in conjunction with efforts to stimulate demand-side energy efficiency. This stabilised total grid load, which had been growing at 6% before this period.

What is Suriname's Electricity permitting process?

Suriname's permitting process is detailed in a report by the Inter-American Development Bank, ESIA (Environmental and Social Impact Assessment for Energy Infrastructure Projects). Suriname's national electrical company EBS (NV Energie Bedrijven Suriname) is focused on improving reliability and sustainability of electricity.

Can Suriname displace fossil fuel-based power generation?

Given the dispatchability of reservoir hydropower plants such as Afobaka [10,000], hydro-supported integration of VRE could be a promising avenue for Suriname to displace fossil fuel-based power generation.

Is electricity demand increasing or decreasing in Suriname?

Electricity demand Electricity demand on the EPAR grid at hourly resolution was obtained from Suriname's utility company (EBS) for the period 2014-2018. Notably, nearly no net change occurred in total load during 2014-2018, with a mean of 1323 GWh/year and a standard deviation of ± 47 GWh/year, and no discernible increasing or decreasing trend.

power generation. Flexible operation of the Afobaka hydropower plant, newly in full possession of Suriname, allows significant wind power integration without violating grid stability and associated power quality re-

Suriname's electricity sector is primarily dominated by hydropower and petroleum-based generation. The state-owned company EBS oversees electricity distribution, and the government is actively working to incorporate more renewable energy sources into the grid to ensure sustainable development.

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The research shows that Suriname could indeed take large steps for an energy transition if the operational scheme of the Afobaka power plant were adapted to the potential for wind power generation. In this way, large wind farms on the coast could easily be integrated into the country's largest electricity network, which supplies the capital ...

As of 2020, 52.9% of Suriname's electricity was generated from fossil fuels, 46.7% from hydro power, and 0.4% from solar energy. Suriname aims to keep its share of electricity from renewable sources above 35% by 2030, according to the country's updated NDC (Nationally Determined Contribution) plan.

By switching to solar, Suriname can significantly reduce its carbon footprint, contributing to global efforts to combat climate change. Energy Independence: Solar energy production is decentralized, allowing power generation at the point of consumption.

Understand how electricity generation changed in Suriname since 1980. Develop a data-based Opinion with Low-Carbon Power & Monitor the Transition to Low Carbon.

This paper explores the potential for increasing the share of renewables in Suriname's electricity mix, with a special focus on the complementary role of existing hydropower and future wind power infrastructure. We show that these resources have great synergetic potential for displacing fossil fuel-based power generation.

This is the Energy Report Card (ERC) for 2022 for Republic of Suriname. The ERC provides an overview of the energy sector performance, highlighting the following areas: o Installed Conventional and Renewable Power Generation Capacity o Annual Electricity Generation, from Conventional and Renewable Plants

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The ERC provides an overview of the energy sector performance in Suriname. The ERC also includes energy



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efficiency, technical assistance, workforce, training and capacity building

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