

Sierra Leone stored energy system

Does Sierra Leone need a reliable energy supply?

The nationwide electrification rate was recorded at 5% (estimated at 12% in urban areas and 2% in rural areas) in 2018 with roughly 150,000 connected customers. The country's energy needs are hugely under served, and the lack of a reliable energy supply is the primary obstacle to Sierra Leone's development.

How much energy does biomass produce in Sierra Leone?

The programme is currently replacing old fridges. As of 2017, the total installed capacity generated from biomass was 33 MW with a potential to generate 2.706 GWh. According to the 2015 Population and Housing Census, 97% of the population in Sierra Leone use firewood or charcoal for cooking.

Could wind energy be a viable option in Sierra Leone?

There is some indication that wind speeds of 12 m/s are possible in parts of the country, implying that wind energy could be a viable option in selected locations. Currently, Sierra Leone has one wind energy system of 5 kW located in the Bonthe District, along the southern coastline.

How much electricity does Sierra Leone have?

As of March 2019, the installed electricity generation capacity in Sierra Leone was 113 MW. This is made up of 75 MW of hydropower, 4 MW of solar and 34 MW of bioenergy. The nationwide electrification rate was recorded at 5% (estimated at 12% in urban areas and 2% in rural areas) in 2018 with roughly 150,000 connected customers.

Does Sierra Leone need rural electrification?

There is currently no entity in Sierra Leone with a specific mandate to drive rural electrification in the country. This is being run by various departments in the Ministry of Energy and SLEWRC. The 2018-2030 plan, however, has set plans for the formation of a Rural and Peri-Urban Electrification Authority.

Why is solar power costly in Sierra Leone?

Solar power is delivered at a very high cost in Sierra Leone, despite the country having an estimated hydro project potential of more than 1000 MW and abundant sunlight for solar power generation, with opportunities above 240 MW.

The data provided in this paper can be used as input data to develop an energy system model for Sierra Leone. As an illustration, these data were used to develop an energy ...

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However, access to data is often a barrier to starting energy system modelling in developing countries, thereby causing delays. Therefore, this article provides data that can be ...

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