

Does Sierra Leone have a long-range energy alternative planning system?

Using the Long-range Energy Alternatives Planning System (LEAP), this work assesses Sierra Leone's energy supply and demand for 2019-2040. We developed three case scenarios (Base, Middle, and High) based on forecasted demand, resource potential, techno-economic parameters, and CO₂ emissions.

Does Sierra Leone have a balance between electricity demand and supply?

Despite various interventions by the government, a balance between electricity demand and supply has yet to be achieved. Using the Long-range Energy Alternatives Planning System (LEAP), this work assesses Sierra Leone's energy supply and demand for 2019-2040.

Can Sierra Leone address energy demand by 2040?

We believe that this may serve as a reference to the government of Sierra Leone for mapping out strategies for addressing energy demand by 2040. Furthermore, this work can be further expanded by incorporating energy efficiency and energy management strategies.

Does Sierra Leone have a good energy demand forecasting study?

There has been no proper energy demand forecasting study in Sierra Leone for the past decade. However, energy demand forecasting for short, medium, and long-term planning has been carried out by many researchers.

How can we forecast the long-term electricity demand-supply situation in Sierra Leone?

This study focuses on forecasting the long-term electricity demand-supply situation in Sierra Leone by considering techno-economic and environmental parameters. Three case scenarios have been generated (Base, Middle, and High) that will cover the country's total electricity demand.

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