

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.

How much electricity does Sierra Leone have?

Approximately 23% of the Sierra Leone population has access to electricity [5]. 60% of Sierra Leone's population lives in rural areas. Persistent electricity scarcity has crippled the country's economic growth and prevented it from attaining several health and education development goals.

Does Sierra Leone have an electricity gap?

Sierra Leone is troubled by a complex and persistent electricity gap. Closing the electricity gap in Sierra Leone remains a considerable challenge with imperative implications. Approximately 23% of the Sierra Leone population has access to electricity [5]. 60% of Sierra Leone's population lives in rural areas.

Is Sierra Leone struggling with electricity?

The period under study ranges from 2019 to 2040, with statistical data from 2015 included as the baseline year in the LEAP modeling. One of the main reasons for Sierra Leone's struggling electricity system is that little attention has been given to forecasting electricity demand and supply.

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 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.

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Results: National and global context, country health systems leadership and structure including resources were drivers of synergies and fragmentation. How global as well as country level actors mobilized power and exercised agency in policy and program agenda setting and implementation processes within country were also important drivers.

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The objective of this study is to analyze the investments in the power sector of Sierra Leone in order to cover the country's future electricity needs considering national targets (electrification ...

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It assesses different pathways for providing electricity access to Sierra Leoneans currently not being served by modern power services. In particular, it discusses the role of mini grids for rural electrification as opposed to two alternatives: Stand-alone home systems and extension of the existing grid.

Despite an expanding literature on Ebola-response, few studies detail or reflect on the responses of diverse systems of care. Little is known about how, why or in what ways, strategies of ill-health management were enacted locally, how health-systems power, authority and hierarchy were perceived and contested, or how other social systems, institutions and relationships shaped ...

The study's resulting recommended adaptations for Sierra Leone's power grid based on potential climate change impacts include: Relocate critical assets; Use heat-tolerant technologies and materials for critical T& D ...

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Sierra Leone Energy Sector Overview Sierra Leone's power sector is relatively small, with less than 100 MW of operational capacity and roughly 130,000 connected customers. Following the ...

The Sierra Leone Power and Water Project aims to improve sustainable access to essential power, rural water supply and sanitation, and urban solid waste management the World Bank Group is a unique global partnership: five institutions working for sustainable solutions that reduce poverty and build shared prosperity in developing countries ...

customary tenure systems in Sierra Leone in the degrees to which political authority and decision-making powers over land are centralized in the authority of the paramount chief or are devolved ...

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