

Why is energy development important in Sudan?

Sudan faces many energy development challenges brought about by high electricity subsidy levels and climate-induced impacts on hydroelectric generation which has been decreasing at a rate of about 4% per year. Improving access to modern and affordable energy is a development priority for Sudan.

How is electricity subsidized in Sudan?

The financial operation of Sudan's electric system is heavily subsidized. The retail tariff of electricity has not changed since 2004. This has led to an intensification of the level of subsidies as the revenue from customers does not cover the full cost of providing electricity service.

What is the electricity situation in Sudan?

The following facts highlight the electricity situation in Sudan: Electricity access rate is only 56%, which is less than the global average of 89%. The low electricity access rate, alongside frequent outages, resulted in poor utilization of electricity for productive purposes.

How can Sudan transform its energy sector?

A comprehensive package of technical and financial assistance will be needed to transform Sudan's energy sector. This will involve the development of risk management strategies that effectively promote public and private investments into scaled-up sustainable energy solutions.

What is installed electric generating capacity in Sudan?

Installed electric generating capacity is comprised of renewable and thermal facilities. Over the period 2012-2017, total installed electricity capacity in Sudan has increased from 3.05 GW to 3.59 GW, an average annual growth rate of 3.3% per year (see Figure 2-3b).

Are solar PV systems a cost-effective source of electricity in Sudan?

Solar PV systems have become a cost-effective source of electricity in Sudan, especially in regions where solar energy potential and grid extension costs are high. Concentrated solar power systems are also potential options for Sudan.

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This work sheds light on the potential of decentralized energy systems to offer a fast, reliable and sustainable way to increase access to electricity in refugee settlements in SSA.

By developing an enabling policy environment for expanding energy access; deploying decentralized renewable energy technologies; and building institutional capacity, the roadmap ...

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This article examines the reality of the RE sector in Sudan and argues that diversifying the range of energy resources exploited will solve Sudan's current energy sector problems. The article thoroughly examines and discusses Sudan's current energy policies with a focus on the challenges and opportunities facing the energy sector.

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In addition to technical potential, the decentralized nature of renewable energy technologies (such as rooftop solar) means they can be used in distributed generation and off-grid systems, and hence contribute to scaling energy access, which is critical given the immense geographical size of Sudan.

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Decentralized renewable energy facilities such as standalone solar home systems and minigrids can provide alternative cost options for electrification problem.

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