

# South Sudan vast solar

Why is solar energy important in South Sudan?

As characterised by ample sunshine with strong solar power potential, South Sudan remains as one of key destinations on African continent for solar energy investment. In addition to this, it has been documented that evolution of solar PV is of great significance in South Sudan.

How long does solar energy last in South Sudan?

Proponents of solar energy argue that a solar system can produce reliable electricity for about 25 years. Having recognised solar energy potential, South Sudan is expected to put more emphasis on development of solar energy sector as part of its fight against energy poverty and economic diversification.

How solar energy can transform South Sudan's economy?

A solar energy can also be transformative to South Sudan's economy. For example, solar energy is affordable, cleaner and last longer as compared to energy from diesel-powered generators because generators need diesel to burn and they also need to be replaced after few years.

Could Sudan be the world's largest solar photovoltaic area?

The project is funded with \$4 billion from the government and is projected to generate a total capacity of 1.8 GW, which would make it the world's largest solar photovoltaic area. In 2018, the first phase was completed and 50 MW was generated [58, 59]. Sudan could exploit its renewable resources by adopting a strategy similar to Egypt.

Does South Sudan have a fight against energy poverty?

The good news is that South Sudan has already started its fight against energy poverty and one evidence for that is the ongoing construction of Nesitu 20MWp PV Solar +35MWh BESS power plant at Nesitu, Juba.

Specifically for South Sudan, country factsheet has been elaborated, including the information on solar resource and PV power potential country statistics, seasonal electricity generation variations, LCOE estimates and cross-correlation with ...

South Sudan is endowed with high solar PV potential boasting more than 10 hours of daily sunshine - approximately solar radiation of 5.5 - 6.0 Kwh/m<sup>2</sup>/day year-round. Such abundant sunshine is ubiquitous in the ten states of South ...

The Juba Solar Power Station is a proposed 20 MW (27,000 hp) solar power plant in South Sudan. The solar farm is under development by a consortium comprising Elsewedy Electric Company of Egypt, Asunim Solar from the United Arab Emirates (UAE) and I-kWh Company, an energy consultancy firm also based in the UAE. The solar farm will have an attached battery energy storage system rated at 35MWh. The off-taker is the South Sudanese Ministry of Electricity, Da...



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High solar radiation, with an average of over 10 hours of sunlight per day. ... While vast areas of South Sudan are suitable for sugarcane, two sites at Melut in northern Upper Nile State and ...

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