

# **Solar energy distribution South Sudan**





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### SunGate Solar

To tackle energy poverty in South Sudan, SunGate Solar pioneered the deployment of a solar micro-grid to provide reliable 24-hour power to off-grid communities. To test its performance as a localized power generation and distribution network, SunGate Solar installed South Sudan's first solar microgrid to deliver clean, reliable, and

### ENERGY PROFILE South Sudan

Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr). The bar chart shows the proportion of a country's land area in each of these classes and the global distribution of land area across the classes (for comparison).



### Solar Solutions for South Sudan

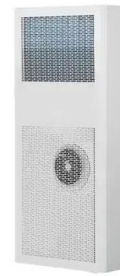
Sungate Solar offers reliable and sustainable solar solutions in South Sudan. Our innovative products and services provide access to clean energy, powering homes, businesses, and communities. Embrace the future with Sungate Solar's affordable and efficient solar solutions for a brighter tomorrow in South Sudan.

### The World ank

to the general public. South Sudan's electricity mix is currently 100% thermal, though the country possesses significant renewable



potential. Five identified high-potential hydropower sites along the Nile could add up to 2,600MW, while a 20MW solar + storage project is currently under construction near Juba.



### PATHWAYS TO ELECTRICITY ACCESS EXPANSION IN SOUTH SUDAN...

Figure 5: Expected increase in electricity demand in South Sudan (MW) 8 Figure 6: Institutional set-up for power distribution in South Sudan. [Source: EED Advisory, 2022] 11 Figure 7: Comparison of Kenya's and South Sudan's Score on Electricity Access Indicators

### Transitioning to Renewable Energy: An Analysis of Energy ...

South Sudan faces a serious energy crisis due to a number of factors, including devastating conflicts (e.g. 1955-172, 1983-2005 & 2013-present) and reliance on the fossil fuel source. The country has the lowest energy consumption rate in Africa and the highest cost of



### Strategic options for building a new electricity grid in South Sudan

With the current Internally Displaced Persons (IDPs) and refugee crisis in South Sudan, humanitarian agencies could champion a transition from the predominant biomass use to solar energy through local capacity building and the establishment of demonstration projects that could generate demand for PV, thus saving the



environment and existing

## South Sudan 1

'South Sudan receives very high levels of solar irradiation of 5.7 kWh/m<sup>2</sup>/day and a specific yield of 4.5 kWh/kWp/day indicating a very strong technical feasibility for solar in the country.<sup>6</sup> Variable Renewable Electricity (VRE) plus-storage projects are in the planning phase in South Sudan including a 20 MW



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