

Can a 1 GW solar PV power plant be built in Sudan?

In this work, simulations of a solar photovoltaic (PV) system located in Sudan are carried out using PVsyst7.0. By comparing the power production, performance ratio and price, the ideal area for setting up a 1-GW grid-attached solar PV power plant in the north region is identified.

Does Sudan need a solar power station?

Developing nations have a critical need to increase electricity supply. Sudan has much unrealized potential for generating solar energy, particularly in the northern region. This research study focuses on designing a 1-GW solar power station in northern Sudan using the PVsyst7.0 software program.

Is a grid-connected PV solar plant feasible in Sudan?

As a result, the proposed grid-connected PV solar plant is considered economically, technically and environmentally feasible in Sudan. More details concerning the electrical layout, possible mechanical load, dimensions for the mounting structure and also protection, disconnection switches and metering are needed.

Is solar power economically feasible in Sudan?

Economic calculations show that the levelized cost of electricity (LCOE) is \$0.06/kWh, the discounted payback period is ~11 years and the net present value is \$635 291 000. As a result, the proposed grid-connected PV solar plant is considered economically, technically and environmentally feasible in Sudan. Energy is important for sustaining life.

What is the average solar irradiance in Sudan?

The average daily solar irradiance in Sudan varies in between 5.8 and 7.2 kilowatt hours per square metre [2]. The solar irradiance needed to create solar power is readily available in almost all regions of Sudan. The solar irradiance is highest in northern Sudan (Fig. 1).

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May 2016. With the new Clearline fusion Configurator it's possible to rapidly price ...

Specifically for 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 the ...

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Sudan solar configurator

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The Solar Configurator tool is here to help! Our web tool is here to assist you in executing your installation plan. Menu. EN. FR; Careers; Products. Solar Modules; Inverters; EV Chargers; ...

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