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These plants can be established and implemented in Sudan, as their potential is considerably high due to the climate conditions in Sudan. This study investigates the design of a parabolic trough concentrated solar power plant in Sudan and analyzes its technical and economic feasibility.

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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.

MW solar photovoltaic power plant using the most recent conditions, and land availability at Dongola City. The designed HPS combines numerous harvestings means to increase energy creation.

The present study was carried out to identify the optimal type of solar PV to utilize to meet an electric load of 20 megawatts (MW) for a chosen village in Sudan. The solar PV systems under consideration were simulated in HOMER software in 21 locations in Sudan: Port Sudan, Omdurman, Al-Qadarif, Kassala, Kosti, Al-Obeid, Dongola, Al-Junaynah ...

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