

## SolarTech Power Solutions

# Sudan High Temperature Solar System



## Overview

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Solar modules are tested and rated for efficiency under Standard Test Conditions (STC), which specify an ambient temperature of 25°C (77°F). This baseline is useful for comparison but fails to reflect real-world operating conditions in many parts of the world. In Sudan, where high solar irradiance.

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lands (maximum altitude of 3,042 m.a.s.l.) and to the east with the Ethiopian massif. It also borders with the Red Sea in the north-east. Sudan's main water course is the river Nile, with about 55% of its population having access to electricity - a valuable Renewable Energy Agency (IRENA)2, most.

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Sudan is a sunbelt country that has abundant solar resources and large wasteland areas, especially in the northern and western portions. Concentrating solar power (CSP) technologies are proven renewable energy (RE) systems to generate electricity in neighboring countries from solar radiation and.

Sudan is in North-Eastern Africa within the sub-Saharan region and has a population of 43 million people and area of 1,886,068 km<sup>2</sup>, making it the third-largest country in Africa. The percentage of population's electricity access reaches only 56%, which is lower than the global average (i.e. 89%,).

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