



SolarTech Power Solutions

Jordan solar panel research and development



Overview

Can solar energy studies be useful in Jordan?

Akash et al. (2016) [76] investigated the current state of solar energy studies in Jordan. They mentioned that their work could be helpful and enlightening to several individuals, including scholars, legislators, and decision-makers.

How much solar energy does Jordan have in 2021?

In 2020, a solar energy project was put into operation with an installed capacity of 200 MW and following the opening of this facility the total installed capacity of solar energy in Jordan reached 1,831 MW in 2021, representing 75% of the total renewable energy capacity (NEPCO 2021, 2022; MoEnv 2020).

How many solar projects are there in Jordan?

The first round (2012–2015) was focused on the southern region of Ma'an, with a total capacity of 200 MW solar projects and 117 wind farms. The Jordanian government then used the competitive bidding process for the second and third rounds.

Can PV systems reduce peak demands and energy costs in Jordan?

In Ref. [110], scholars reported that PV systems could be used to reduce peak demands and energy costs in Jordan. The study shows that installing PV systems can reduce energy costs by up to 10% for large commercial buildings.

Is Jordan a good place for solar energy?

They reported that because Jordan is located in the world's solar belt, it receives higher average solar radiation amounts, ranging between 4 and 8 kW h/m² /day, which suggests a capacity of 1400–2300 GW h yearly. As a result, Jordan has a huge potential for solar energy, enabling a large-scale installation of PV projects.

What are the benefits of solar energy in Jordan?

Hence, the benefits of such a system would involve increased sustainability and less reliance on fossil fuels. They clarified that Jordan benefits from high solar radiation levels, with an average of 4–7 kW h/m² daily on a horizontal surface and approximately 300 sunny days yearly.

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