

SolarTech Power Solutions

Solar panels angle in Jordan



Overview

So far based on Solar PV Analysis of 8 locations in Jordan, we've discovered that the ideal angle to tilt solar PV panels in Jordan varies between 28° from the horizontal plane facing South in Irbid and 26° from the horizontal plane facing South in Aqaba. What is the solar energy potential in Jordan?

The solar energy potential in Jordan is enormous as it lies within the solar belt of the world with average solar radiation ranging between 5 and 7 KWh/m², which implies a potential of at least 1000GWh per year annually. Solar energy, like other forms of alternative energy, remains underutilized in Jordan.

How to optimize solar generation in Amman Jordan?

Assuming you can modify the tilt angle of your solar PV panels throughout the year, you can optimize your solar generation in Amman, Jordan as follows: In Summer, set the angle of your panels to 16° facing South. In Autumn, tilt panels to 36° facing South for maximum generation.

Is Jordan a good place to install solar panels?

The area around Mount Nebo in Madaba Governorate also has relatively flat terrain that could be used for solar PV projects. Jordan ranks 38th in the world for cumulative solar PV capacity, with 1,521 total MW's of solar PV installed.

How should solar panels be positioned in Amman?

In Autumn, tilt panels to 36° facing South for maximum generation. During Winter, adjust your solar panels to a 47° angle towards the South for optimal energy production. Lastly, in Spring, position your panels at a 24° angle facing South to capture the most solar energy in Amman, Jordan.

How many solar panels are installed in Jordan?

According to annual reports by Jordan's grid operators, the total installed on-grid solar PV capacity reached 2,073.86 MW by the end of 2024. This capacity is divided as follows: Distribution System Operators (DSOs): 1,081.86 MW

across 74,145 projects. Transmission System Operator (TSO): 992 MW. The largest DSO-managed installations were by:.

Why does Jordan need a solar PV installation & maintenance service?

Since Jordan started the solar PV installation in 2012, the demand for solar PV operation and maintenance (O&M) services increased, driven by aging systems requiring inverter replacements (every 8-10 years) and system optimization.

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